Duplo

from print to documents

INSTRUCTION MANUAL

DUPRINTER

DP - L220/L210/L200

Be sure to read this manual prior to use.
Please leave this manual at the site of use for easy reference.

Introduction

Thank you for your purchase of the DUPRINTER DP-L220 / L210 / L200.
To ensure safe and efficient prolonged use of this machine, read and thoroughly understand this manual before using this machine.
After using this manual, be sure to keep it in a handy place to reference.

- Macintosh and Mac OS are trademarks of Apple Computer, Inc., registered in the U.S. and other countries.
- Microsoft, Windows, Windows NT, and Windows Vista are either registered trademarks or trademarks of Microsoft Corporation in the United States and/or other countries.

Precautions for printing and duplicating
There are restrictions on what you may print on the printer.
Please be aware that there are some printed materials that are illegal even to possess.

1. Printed matters banned by law
- Paper money, currency, government bonds and national and local bonds cannot be duplicated, even if they are stamped with the "sample" seal.
- Paper money, currency and bonds, etc. that are valid in foreign country cannot be duplicated.
- Unused postage stamps and postcards cannot be duplicated without governmental consent.
- Government-issued papers pertaining to stamps, liquor and sales tax laws cannot be duplicated.

2. Printed matters that require caution
- Printed-issued securities (stocks, bills and checks, etc.), passes and tickets require caution in duplicating unless a business is duplicating them for required number for their own business needs.
- Government-issued passports, public- and private-issued driver's licenses, permits, IDs, passes, food stamps, etc. require caution in duplicating.

3. Copyrighted materials
- Books, music, artwork, prints, maps, diagrams, movies, photography, etc. are banned from duplicating outside the limits of private home use and their related non-sale usage.

ENERGY STAR

As an ENERGY STAR® Partner, we have determined that these products meet the ENERGY STAR Guidelines for energy efficiency.

Product without ENERGY STAR logo mark does not meet the ENERGY STAR Guidelines.

Complies with the provisions defined by the regulations listed below.
EC Low Voltage Directive (2006/95/EC)
EC Electromagnetic Compatibility Directive (2004/108/EC)

PLEASE NOTE
In the interest of upgrading our products, specifications and other data given in this manual are subject to change without notice. If the manual contains anything that you do not understand, contact the dealer for clarification.

Disposal of Old Electrical & Electronic Equipment

This symbol (the symbol of the crossed out wheeled bin) indicates that in European countries this product should not be disposed of as household waste.

Please recycle where facilities exist by checking with your local authority or supplier for recycling advice.

By ensuring this product is disposed of correctly through proper treatment, recovery and recycling, you will help prevent potential negative effects on the environment and human health.

En

Entsorgung von alten elektrischen und elektronischen Ausrüstungsteilen

Dieses Symbol (das Symbol mit dem durchgekreuzten fahrbaren Müllbehälter) zeigt an, dass dieses Produkt in europäischen Länden nicht als Haushaltsmüll entsorgt werden darf. Bitte informieren Sie sich bei Ihren örtlichen Behörden oder bei Ihrem Händler hinsichtlich einer Empfehlung für die Entsorgung und führen Sie die betreffenden Teile dort, wo solche Einrichtungen vorhanden sind, einem Recycling-Prozess zu.

Indem sie sicherstellen, dass das betreffende Produkt durch richtige Behandlung, Rückführung und Recycling entsorgt wird, tragen Sie dazu bei, möglichen negativen Auswirkungen auf die Umwelt und die menschliche Gesundheit vorzubeugen.

Ge

Elimination du matériel électronique et électrique usagé

Ce symbole (une poubelle marquée d'une croix) indique que dans les pays européens, ce produit ne doit pas être éliminé comme des ordures ménagères.

Recyclez-le dans les sites adaptés qui vous seront indiqués par les autorités locales ou renseignez-vous auprès de votre fournisseur.

En veillant à ce que ce produit soit éliminé correctement avec un traitement, une collecte et un recyclage adaptés, vous contribuez à éviter son action nocive potentielle sur l' environnement et la santé humaine.

Fr

Smaltimento di attrezzature elettriche ed elettroniche consumate

Questo simbolo (il simbolo della pattumiera con rotelle barrata) indica che nei paesi europei questo prodotto non deve essere buttato nei rifiuti domestici.

Per favore smaltire in luogo addetto al riciclo, dove esistente, chiedendo informazioni alle autorità locali o a chi fornisce consulenza a proposito.

Garantendo uno smaltimento adeguato di questo prodotto (trattamento, recupero e riciclo corretto), aiuterete a prevenire effetti negativi sull'ambiente e sulla salute dell'uomo.

It

Eliminación de residuos de aparatos eléctricos y electrónicos

Este símbolo (un cubo de basura tachado) indica que en los países europeos este producto no deberá eliminarse como si se tratara de un residuo doméstico. Solicite asesoramiento sobre reciclaje a las autoridades locales o a su distribuidor, y siga la normativa en materia de gestión medioambiental y reciclaje de este tipo de residuos.

Si toma las medidas pertinentes para que este producto se elimine mediante un tratamiento, recuperación y reciclaje adecuados, contribuirá a evitar posibles efectos negativos en el medio ambiente y la salud humana.

Sp

● Pictorial Symbols and Other Notations Used in This Manual

IMPORTANT : Introduces instructions for correct operation of the machine.
If these instructions are ignored, the machine may not be able to operate at optimum performance or may break down.

REFERENCE : Introduces information that is useful for operation and maintenance of the machine, or information about the machine's performance, etc.

: Indicates that the description of the operating sequence is continued on the next page.

(→ P.00 "xxxx") : Indicates the page number and item containing related information.

Notes on Safety (Please Read and Observe)

⚠ Safety Precautions

Various symbols and pictures are used in this manual and on the labels affixed to the machine. These symbols and pictures provide warnings and instructions to prevent danger to you or other personnel, and to prevent damage to office property.
The meanings of these symbols and pictures are explained below.

⚠ **WARNING** Indicates a high degree of potential danger. Failure to heed the warning may lead to death or serious injury.

⚠ **CAUTION** Indicates a medium degree of potential danger. Failure to heed the caution may lead to injury or damage to property.

<Examples of Pictorial Symbols>

⃠ A circle with a line through it indicates a prohibited action.
The particular act prohibited is indicated by a picture inside the circle.
(In the example shown here, the prohibited act is disassembly.)

●A black disc indicates an instruction, or sometimes a prohibited action.
The instruction itself is indicated by pictorial symbols drawn in white on the disc. (In the example shown here, the instruction is "Remove the plug from the outlet.")

● Precautions for Use

⚠ WARNING	
	● If the machine is used after foreign matter (metal fragments, water, or liquid) has entered the machine, this may result in fire or electric shock. → Turn the main unit's power switch OFF, and then remove the power plug from the outlet. Contact the sales distributor.
	● If the machine is used after heat, smoke, strange smell, or other abnormality is detected, this may result in fire or electric shock. → Turn the main unit's power switch OFF, and then remove the power plug from the outlet. Contact the sales distributor.
	● Do not insert or drop metal, flammable material, or other matter through the ventilation holes into the machine interior. → Doing so may result in fire or electric shock.
	● Do not place flower vases, flowerpots, cups, or water containers (including metal containers) on top of the machine. → Fire or electric shock may result if liquid spills inside the machine.

● Caution for Grounding (Be sure to use the supplied power cord)

⚠ WARNING

● Use only the power cord that is provided among the accessories.
Insert the power cord plug firmly into the socket, so that proper electrical contact is effected.
→ Use of any other power cord could result in imperfect grounding.
If grounding is imperfect and electrical leakage occurs, fire or electric shock could result.

● Caution for Power Supply and Power Cord

⚠ WARNING

● Do not use a source voltage other than that specified.
Do not connect two or more loads to a single outlet.
→ Doing so may result in fire or electric shock.

● Be sure to remove dust on the power plug and/or the outlet.
Using these without removing dust may have minute electric current flow to the surface due to the humidity and cause a fire due to the heat.
→It may cause a fire or electric shock.

● Do not remove or insert the power plug with wet hands.
→ Doing so may result in electric shock.

● Do not damage, break, or modify the power cord.
Do not place heavy objects on, tug, or unnecessarily bend the power cord.
→ Doing so may result in fire or electric shock.

● Remove the power plug itself, not the cord.
→ Tugging the cord may damage it (expose conductors, or cause disconnections, etc.), resulting in fire or electric shock.

● Prohibition of Disassembly or Modification

⚠ WARNING

● Do not modify the machine.
→ Doing so may result in fire or electric shock.

● Do not remove the rear lid, cabinet, or covers from the machine.
→ The inside of the machine contains high-voltage parts, which may cause electric shock.

● Caution for Location

⚠ WARNING

● Do not place the machine in a humid or dusty area.
→ Doing so may result in fire or electric shock.

● Install the machine on the optional cabinet.
● Do not use any other desks or table than optional cabinet.
● Do not place the machine on the desk.
→ If the machine is dropped or falls over, this could result in personal injury.

● Once the machine is in position, secure in place using the casters.
→ If the machine falls over, this could result in personal injury.

⚠ CAUTION

● Before moving the machine, remove the power plug from the outlet.
→ If the cord is damaged, this may result in fire or electric shock.

● Do not place the machine in an unstable position, such as on an unsteady support or sloping area.
→ If the machine is dropped or falls over, this could result in personal injury.

⚠ CAUTION

- Do not place the machine in a place subject to direct sunlight or heating equipment such as a stove.

→ It may degrade ink quality and affect printing. The machine also may malfunction.

- Avoid placing the machine in a place subject to high or low temperature or high humidity.

→ The paper absorbs moisture and it may cause paper jam or creasing.

- Leave the power supply cord unplugged when the machine is not used for a long period.

→ Insulation may deteriorate and cause an electrical fire.

● Cleaning

⚠ CAUTION

- Before cleaning the machine, turn off the power switch and unplug the power supply cord.

→ If the machine is activated accidentally, injury may result.

- Do not use flammable sprays or solvents inside or near the machine.

→Gas may accumulate inside the machine causing a fire or explosion.

● Notes on Ink

⚠ CAUTION

● If ink gets into eyes or mouth, immediately wash it away with water and contact a doctor.

● If ink comes into contact to skin, immediately wash it away with soap and water.

● Keep ink away from children.

Ink pack:

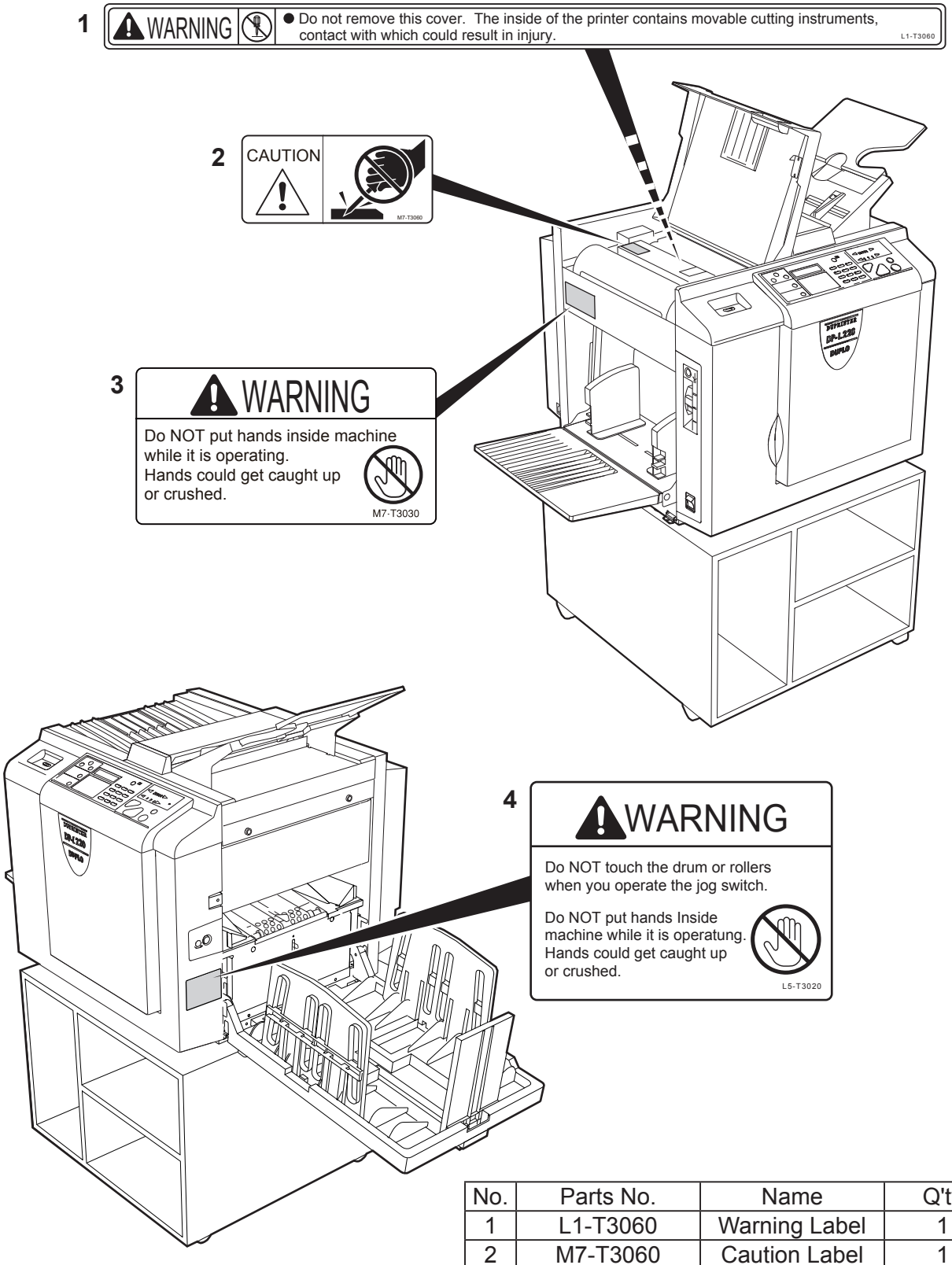
● Refer to "Chapter 5 Replacing Consumables" for handling the ink pack.
(→P.58 ”Replacing the Ink Pack”)

Storage conditions:

● Store in a cool and dry place avoiding direct sun light.
Adequate storage temperature: from -5 to 40 degrees (C)
● Never put ink pack close to fire.

● Locations of Warning Labels

● Keep the WARNING and CAUTION labels clean at all times. If labels become damaged or come off, please call our service personnel.


1
WARNING
● Do not remove this cover. The inside of the printer contains movable cutting instruments, contact with which could result in injury.
L1-T3060
2
CAUTION
M7-T3060
3
WARNING
Do NOT put hands inside machine while it is operating.
Hands could get caught up or crushed.
M7-T3030
4
WARNING
Do NOT touch the drum or rollers when you operate the jog switch.
Do NOT put hands Inside machine while it is operatung.
Hands could get caught up or crushed.
L5-T3020

No.	Parts No.	Name	Q'ty
1	L1-T3060	Warning Label	1
2	M7-T3060	Caution Label	1
3	M7-T3030	Warning Label	1
4	L5-T3020	Warning Label	1

Function Index

The followings are a brief introduction of various functions of the machine.

Functions for Master Making

Master Making Size →P.23

Sets paper size.
Nonstandard-size paper is available.

Zoom →P.27

Enlarges or reduces the size of copy as you prefer.

Image Mode →P.25

Sets image mode suitable for the document.

Darkness →P.36

Adjusts the density of the master.

2in1 →P.34

Prints two different documents on one page.

Ink Save Mode →P.55

Saves ink when printing by changing document scanning density.

Functions for Printing

Print Speed →P.26

Adjusts print speed.

Print Position →P.46

Adjusts the position of the printed image.

Batch Print/ Sequential Batch Print →P.38

Makes prints in groups.
Changes the number of prints made from each document.

Confidential Safeguard →P.52

Prohibits others from printing confidential documents.

Online Mode →P.53

Makes prints using a personal computer.

Other Functions

Memory Mode →P.48

Saves settings for master making and printing and retrieves the settings if needed.

Energy Save Mode →P.54

Automatically turns off the LCD when it is not operated for a specified period of time. This reduces power consumption.

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Chapter 1

Before Using

This chapter contains essential information such as the names of the machine parts, the names and functions of keys, etc., on the control panel, and the sizes of documents and printing papers that you can use. Please be sure to read this chapter carefully before attempting to use the printer.

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Master Making 13
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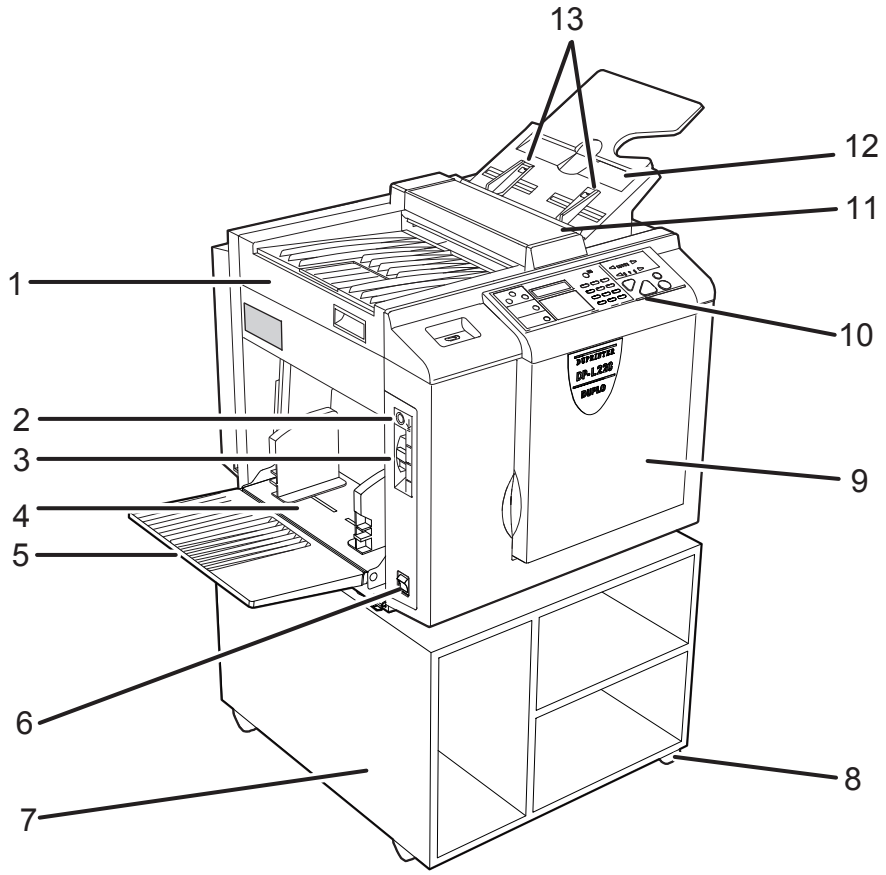
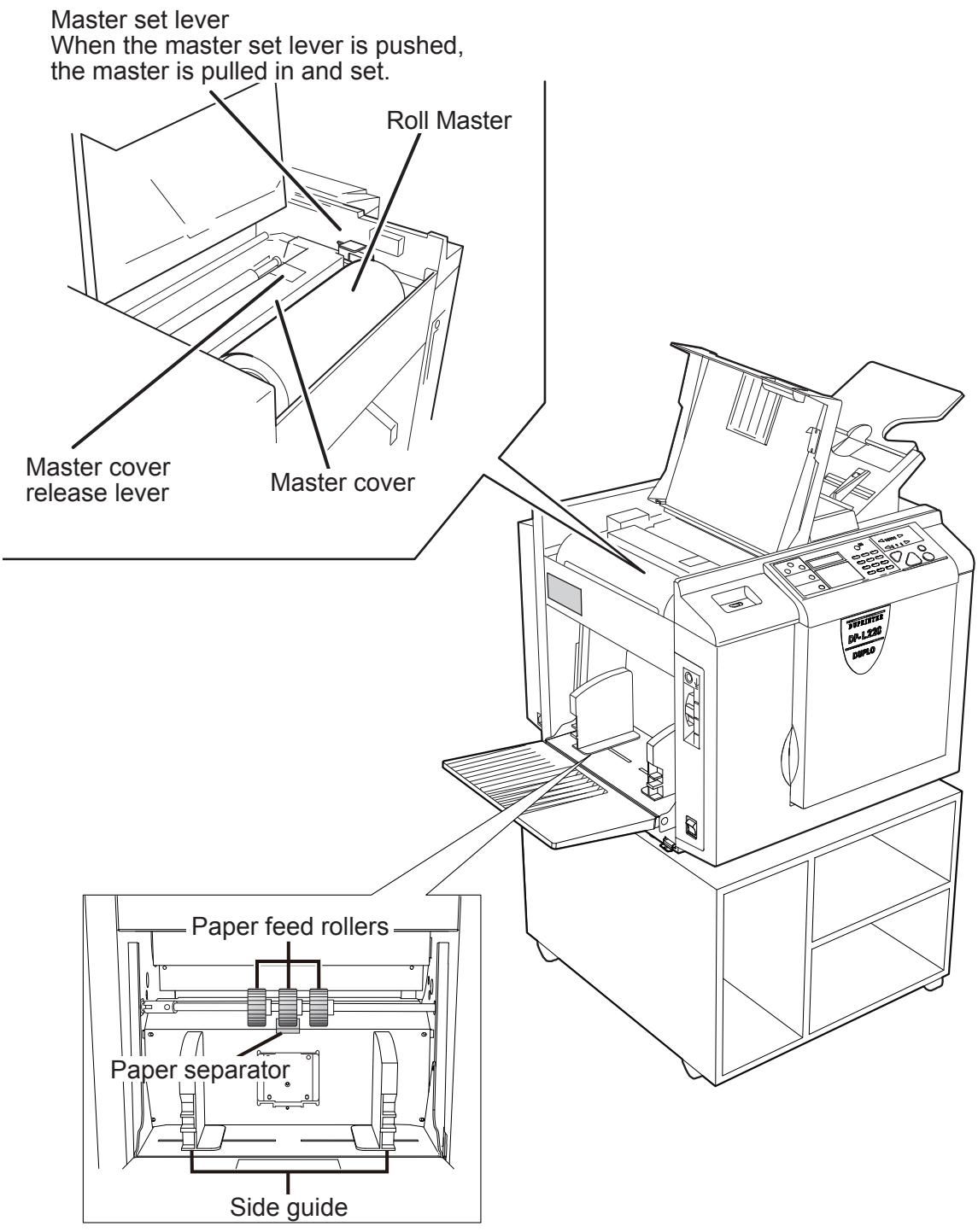
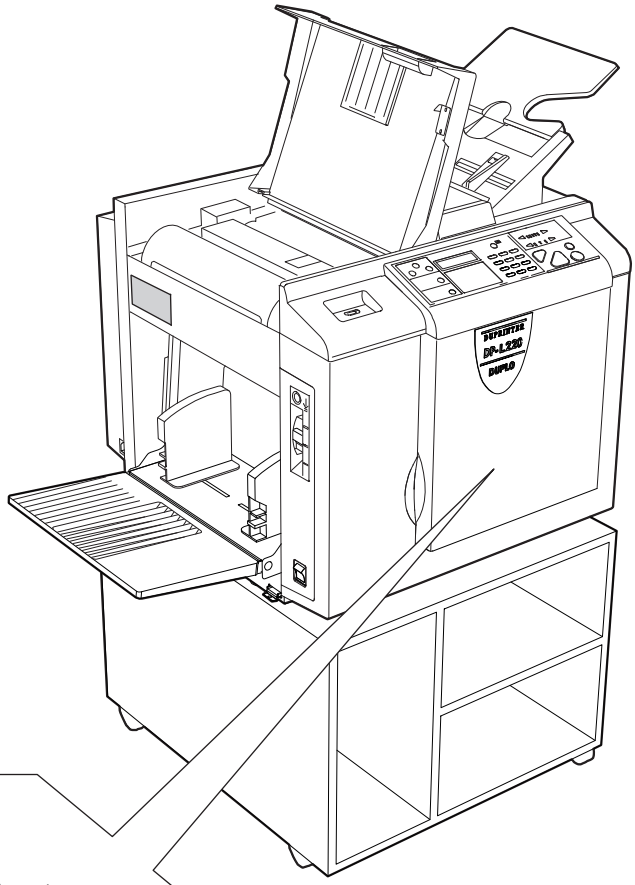
Part Names and Their Functions

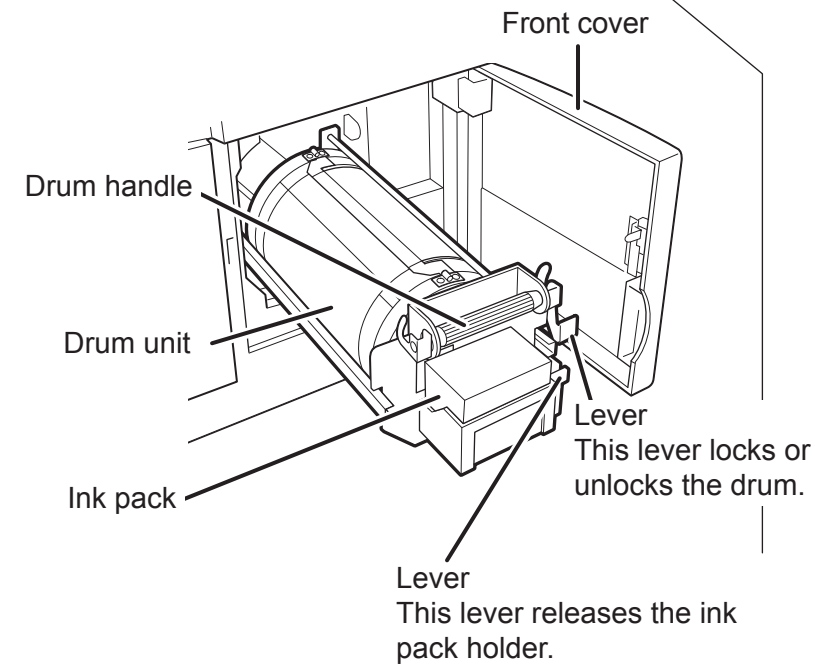
Printer Appearance

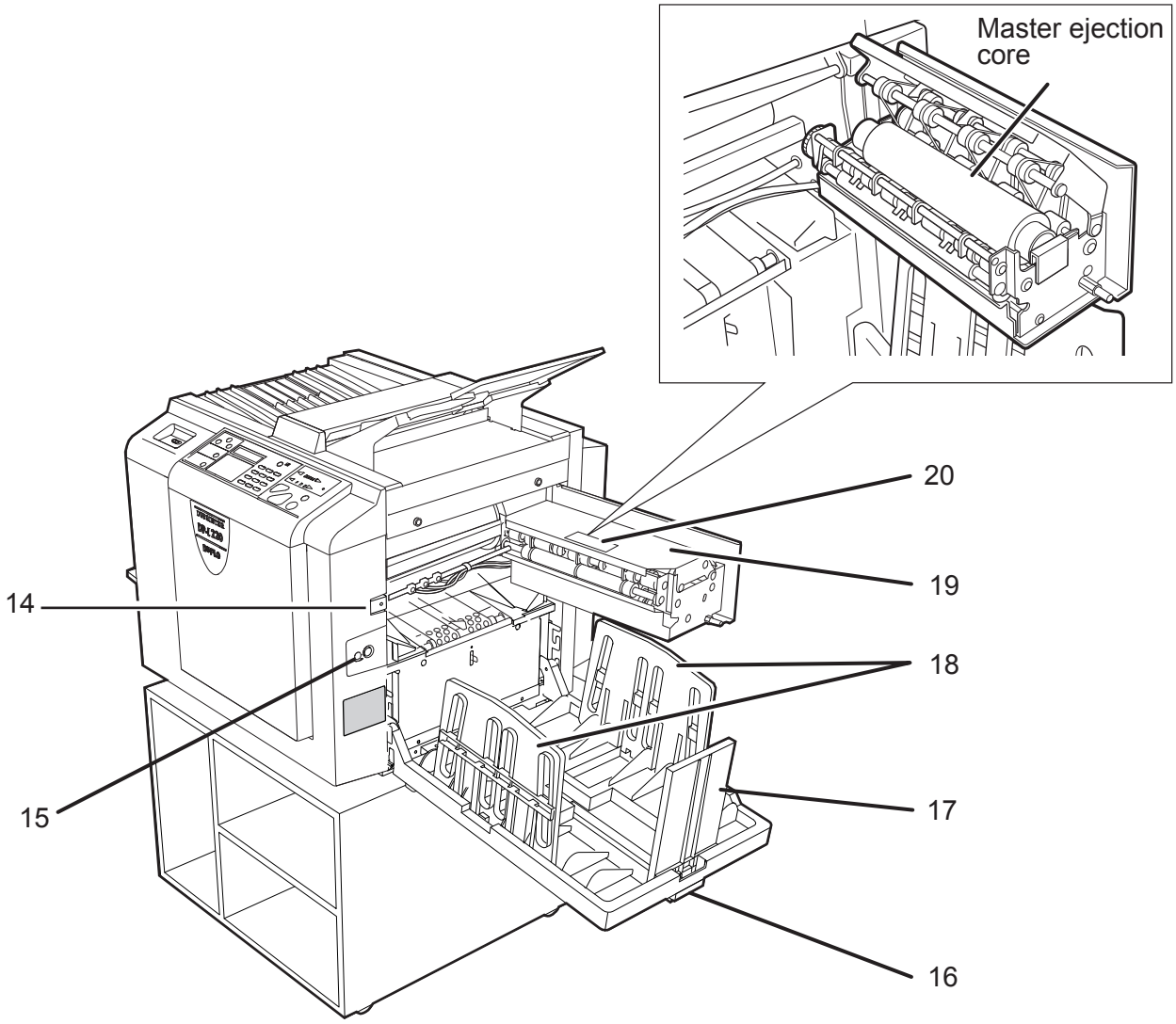


No.	Name	Function	Reference page
1	Upper cover	Open to replace the roll master, etc.	61
2	Feed tray descend switch	Press to lower the feed tray.	76 ,78 ,80
3	Feed pressure adjuster lever	Use to adjust the paper feed pressure.	17
4	Feed tray	Load paper in this tray.	16
5	Support tray	Pull out when loading paper.	16
6	Power switch	Press to switch the power on and off.	9
7	Cabinet (Option)	Place the printer on thi cabinet.	-
8	Castor locks	Lock the printer in position on the floor. Always lock the castor locks when installing the printer.	-
9	Front cover	Open to replace ink pack and drum unit, etc.	58 ,67
10	Control panel	Displays operations and statuses, and sets functions.	8
11	ADF	Documents of sheet type can be printed consecutively.	20
12	Document tray	Place the document.	20
13	Document guide	Slide to match the width of the document.	20


Master set lever
When the master set lever is pushed,
the master is pulled in and set.
Roll Master
Master cover
release lever
Master cover
Paper feed rollers
Paper separator
Side guide

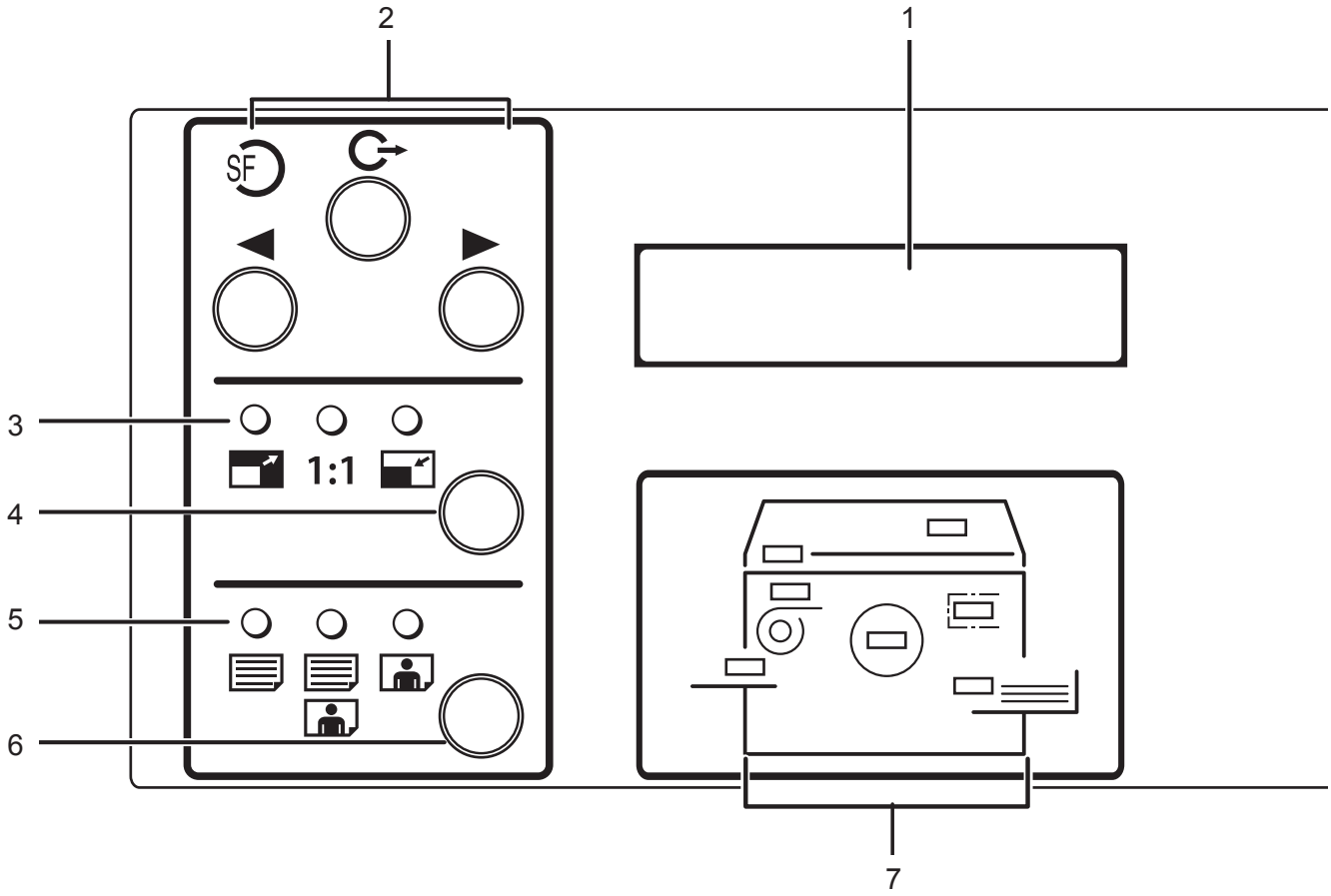



Front cover
Drum handle
Drum unit
Ink pack
Lever
This lever locks or unlocks the drum.
Lever
This lever releases the ink pack holder.

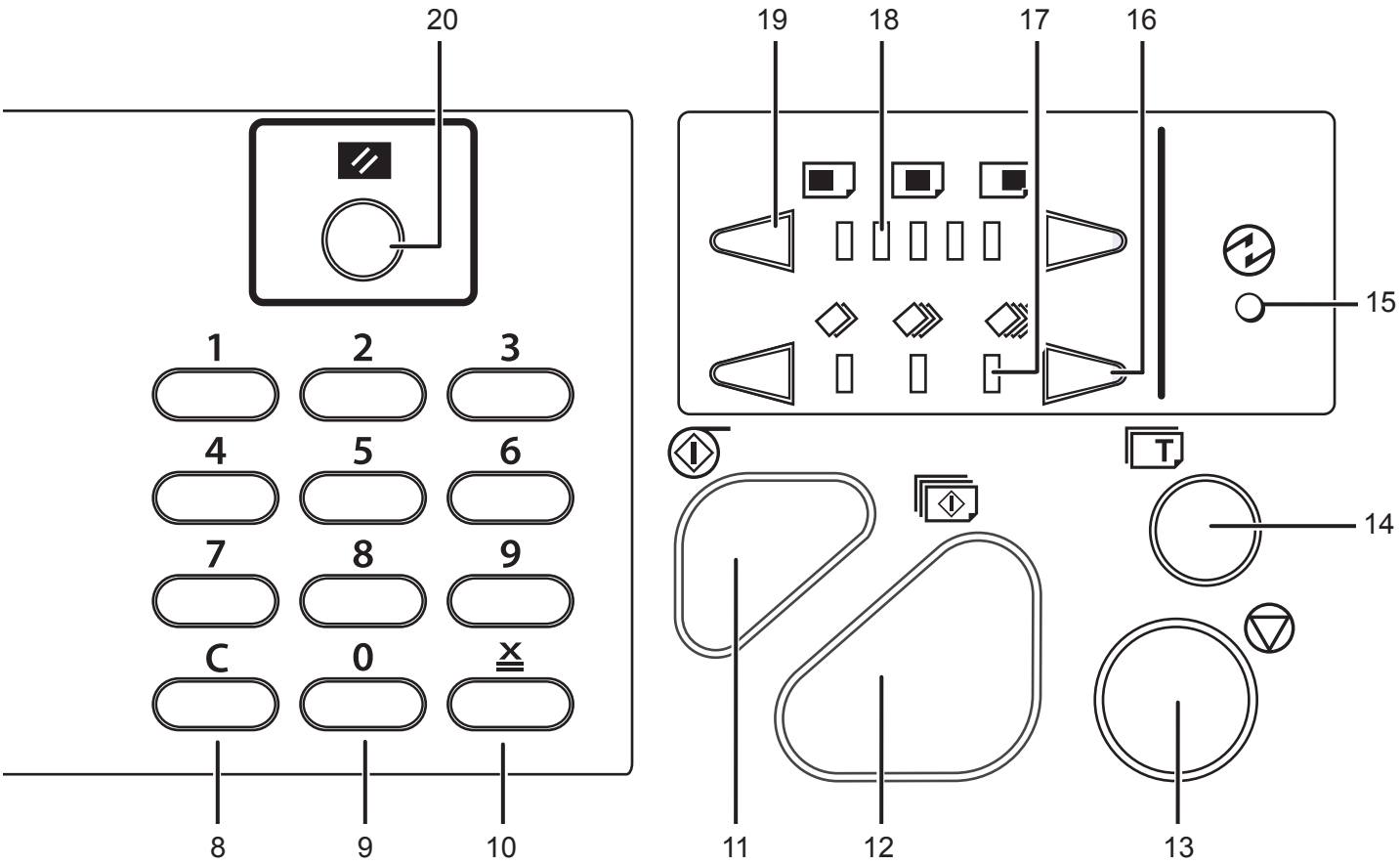


No.	Name	Function	Reference page
14	Master ejection box open button	Press to open the master ejection box.	84 ,82
15	JOG switch	Press and hold to rotate the drum for a set time. Use to remove paper jams, etc..	67
16	Print tray	Holds the printed paper.	18
17	Paper stopper	Slide to match the size of printed paper.	18
18	Side fences	Slide to match the size of printed paper.	18
19	Master ejection box	Open to replace the master ejection core, etc..	65 ,84
20	Master ejection box cover open lever	Press to open the master ejection box cover. Use when disposing of used master, etc.	65

Control Panel

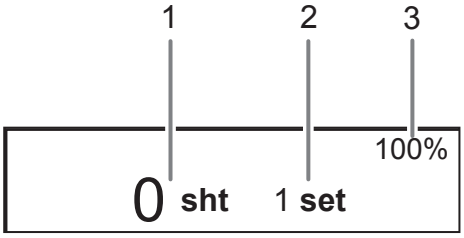


No.	Name	Function	Reference page
1	LCD panel	Displays current settings such as number of printed sheet. Displays error messages in case of error.	8
2	FUNCTION key	Switches function setting mode.	23
	SELECT key (Right)	Selects function.	23
	SELECT key (Left)	Selects function.	23
3	ENLARGEMENT /REDUCTION lamp	Indiction for the ratio is selected.	27
4	ENLARGEMENT /REDUCTION key	Press to set the enlargement or 100% or reduction ratio.	27
5	Document mode indicator lamps	The lamp of the selected mode lights.	25
6	DOCUMENT MODE key	Press to switch between the text mode, text/photograph mode and photograph mode. Each press of this key moves the position of the lit lamp that indicates the selected document mode.	25
7	OK monitor	Flashes to display the content of the trouble and lights to indicated the part that caused the trouble in the machine.	73
8	CLEAR key	Resets the number of prints and the entered values to 0.	-
9	NUMERIC keys	Enters the number of prints.	39
10	≦ key	Enters the number of prints and sets in batch printing/ sequential batch printing.	39



	Name	Function	Reference page
11	MASTER MAKING key	Starts making a master. Master making cannot be performed during printing. Clear the number of prints before starting master making.	21
12	PRINT key	Starts printing. Master making is not performed.	21
13	STOP key	Stops printing. When this key is pressed while making a master, the machine stops after the master has been made.	56
14	TEST PRINT key	Prints one copy so that the image position and density can be checked.	52
15	Energy saving mode indicator lamp	Lights up when the machine is in energy saving mode.	54
16	PRINT SPEED keys	Control print speed.	26
17	Print speed indicator lamp	The lamp of the specified print speed lights up.	26
18	Print position indicator lamp	The lamp of the specified printing speed lights.	46
19	PRINT POSITION keys	Control print position.	46
20	RESET key	Returns setting to Standard mode. Non-stored setting is cleared.	10

Main Screen



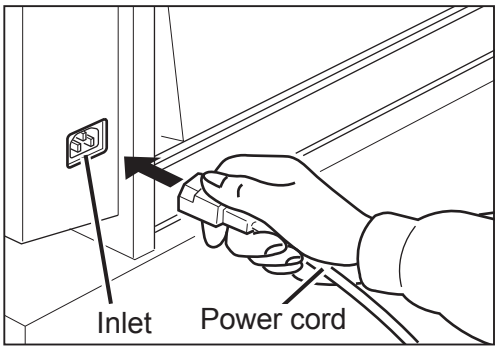
No.	Name	Function	Reference page
1	Print count	Displays the number of prints to be made.	22
2	Sets	Displays the number of sets to be printed.	40
3	Zoom ratio	Displays the selected (enlargement/reduction) ratio.	-

Turning Power ON/OFF

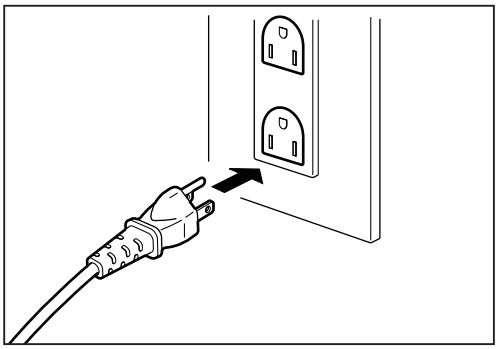
This section describes the operating sequence from turning ON the power switch until the printer is ready to make prints, and how to turn OFF the printer power.

Turning ON Printer Power

1. Connect the “female plug” of the power cord to the “Inlet”.



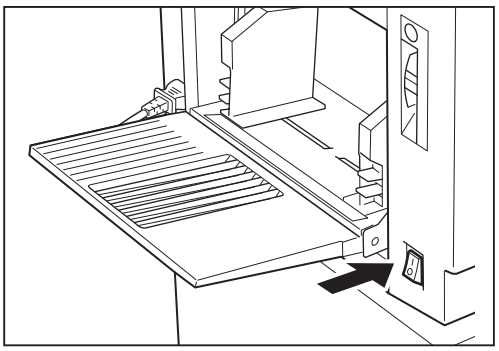
2. Connect the “male plug” of the power cord to the “outlet”.



⚠ WARNING

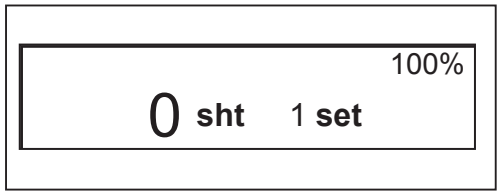
- **Insert the power cord plug fully, so that proper electrical contact is made. If grounding is imperfect and electrical leakage occurs, fire or electric shock could result.**

3. Press the “I” side on the “power switch”. The power turns ON.

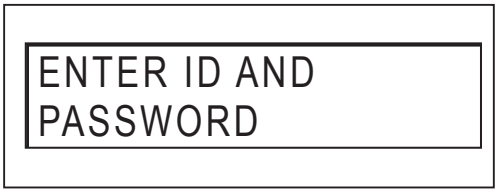


The message “SET PRINT PAPER” is displayed on the LCD panel.
The printer functions are now set in “Standard Mode”.
(→P.10 “Standard Mode”)

When paper is loaded in the feed tray, the screen shown at right is displayed.

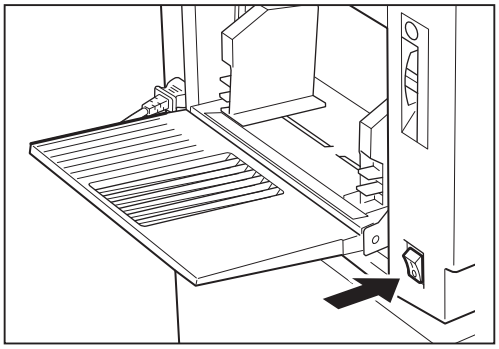


When the screen shown at right is displayed, press the PRINT key, then input ID and password.
(→P.11 “UID Control Function”)



Turning OFF Printer Power

1 Press the “O” side on the “power switch”.
The printer is turned off and the panel display goes out.



Standard Mode

When the printer power is first turned ON or the RESET key is pressed, the functions are reset to standard mode. The standard mode settings are as follows:

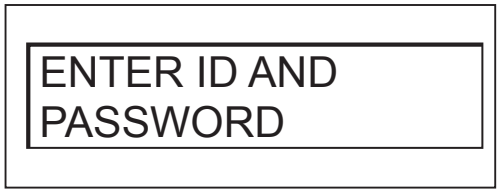
- Print quantity : 0
- Print position : Standard
- Print speed : Speed 2
- Zoom : 100%
- 2 IN 1 : OFF
- Document mode : TEXT
- Master size : DP-L200/A4, DP-L210/LG, DP-L220/B4
- Master darkness : NORMAL
- ×94% : OFF

UID Control Function

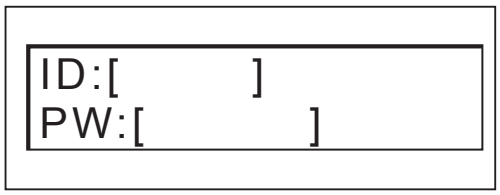
By the UID function, the administrator can control the master making and print quantities per person or per department, etc. See the Instruction Manual for UID for details.

Input ID and password

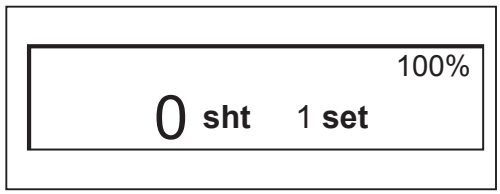
1 When you turn on the power, the screen shown at right is displayed. Please press the [PRINT] PRINT key.



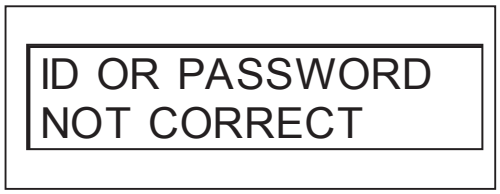
2 Please input ID and password that are given by administrator using the NUMERIC keys.
When ID is completed, the cursor moves to password area automatically.
When password is completed, use the [PRINT] PRINT key to confirm.
By using the [C] CLEAR key to delete the all that you inputted, and then input it again. By pressing the [C] CLEAR key twice to input ID and password again.



Only when the ID and password are correct, the printer can be operated as normal.



If the ID or PASSWORD is not correct, the LCD panel will shown as right.
Please press the ≜ key or [PRINT] PRINT key and input correct ID and password again.



Document/Printing Paper Specification

Acceptable Documents

- Document weight : 64–128 gsm (17lb bond - 34lb bond)
- Document size : MAX. 297×432 mm (11"×17")
  MIN. 100×148 mm (4"×6")
- Stacking capacity in document tray : 10 sheets (64 gsm)

IMPORTANT

- To make a new plate from a document from which a plate has already been made, remove and then reload the document.
- Always use documents of the same size.
- If you load documents of different lengths, the printer may not operate correctly.

The following types of document cannot be used:

- Documents with large file-binding holes, tears, or missing parts
- Documents with staples or paper clips attached
- Documents with markedly curling ends/sides, or marked folds
- Carbon-backed documents
- Sticky documents
- Highly transparent documents such as OHP film

Acceptable Printing Paper

	DP-L220	DP-L210	DP-L200
Paper weight	45–210 gsm		
Paper size	Max. 297×420 mm Min. 100×148 mm	Max. 297×364 mm Min. 100×148 mm	Max. 297×364 mm Min. 100×148 mm
Paper stacking capacity	Feed tray : 1300 sheets (64 gsm high-grade paper) Print tray : When a cabinet is used:1300 sheets (64gsm high-grade paper) When the printer is used on a table: 900 sheets (64gsm high-grade paper)		

IMPORTANT

The following types of paper cannot be used.

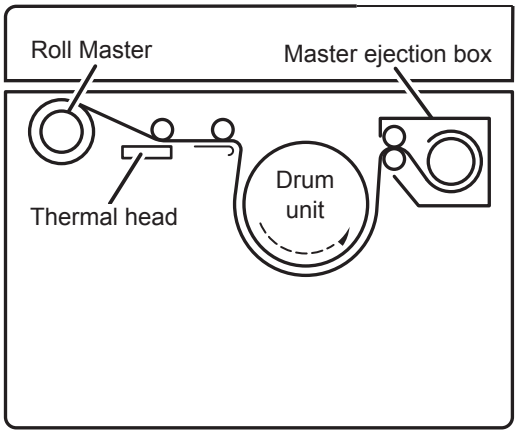
- Paper with large file-binding holes
- Paper with staples or paper clips attached
- Paper with markedly curling ends/sides, or marked folds
- Paper with tears or rough edge
- Chemically treated paper such as thermal paper, carbon paper, and stickers, etc.
- Highly transparent paper such as OHP film and tracing paper, etc.
- Paper with correction fluid and glue, etc.
- Paper with smaller pieces of glued paper

How Master Making and Printing is Performed

The machine performs two processes: master making and printing.

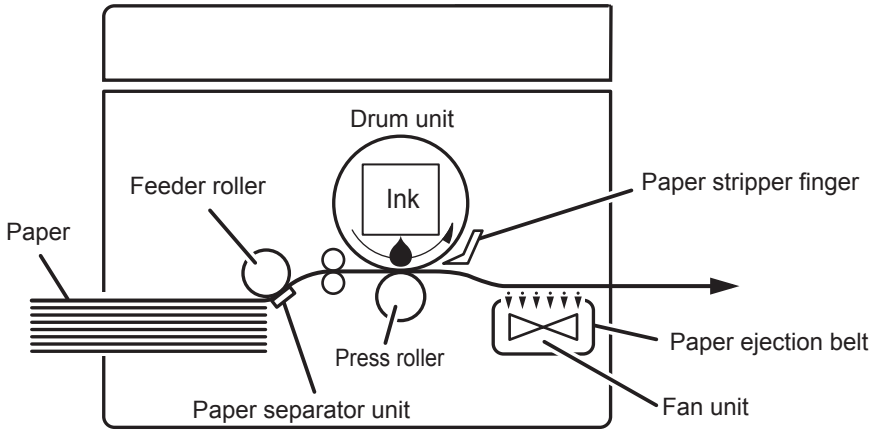
Master Making

In the “master making” process, the old master on the drum is removed while the thermal head creates the scanned image on the new master and transfers it onto the drum.



Printing

In the “printing” process, paper separated from the stack by the feeder roller and paper separator unit is pressed against the drum unit by the press roller. There are small holes over only the image area of the master that is attached to the drum, and ink that seeps from these holes is transferred to the paper. The paper is then peeled from the master by the paper stripper finger. The paper is directed onto the paper ejection belt by a fan unit and discharged from the machine.



Chapter 2

Basic Operations

This chapter describes basic operations such as basic printing, how to set a document and how to enlarge/reduce the size of copy, etc.

Preparing for Printing 16
- How to Set Papers 16
- Adjusting Paper Feed Pressure 17
- How to Supply or Replace Paper While Printing 17
- How to Set the Print Tray 18
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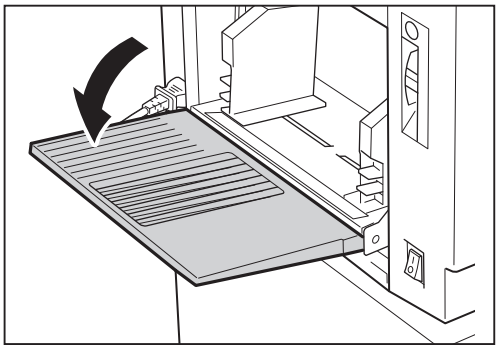
- Enlarging/Reducing from Standard-Size Document to Standard-Size Paper 27
- Free Zoom 29
- Minor Reduction 31

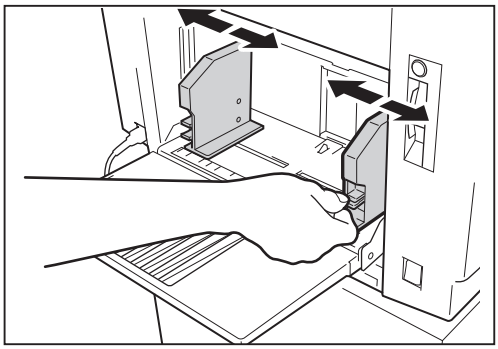
Preparing for Printing

How to Set Papers

1 Open the support tray.

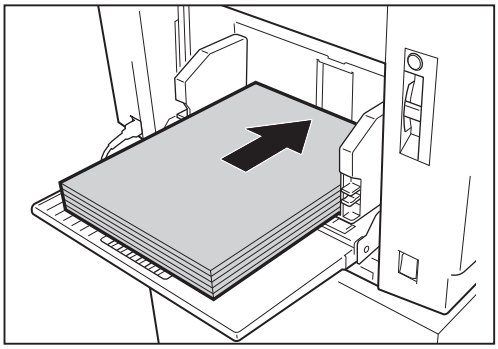


2 Hold the lever and adjust the side guides to the paper size.



3 Loosen sheets and align them.

4 Load a stack of aligned sheets between the side guides and press the stack lightly toward the machine.



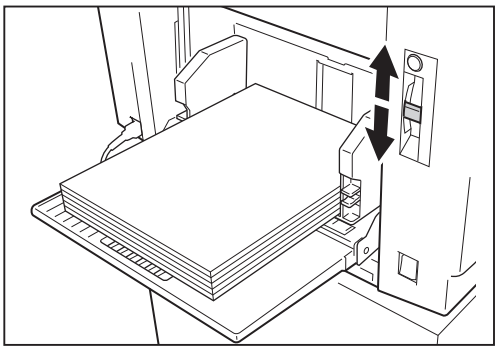
IMPORTANT

- You can load the feed tray with approximately 1,300 sheets of 64 gsm high-grade paper.

Adjusting Paper Feed Pressure

Adjust the paper feed pressure if an feeding error occurs when using thick or thin paper.

■When no thick paper is fed
Adjust the paper feed pressure adjuster lever to "HIGH".
■When two pieces of thin paper are fed
Adjust the paper feed pressure adjuster lever to "LOW".



How to Supply or Replace Paper While Printing

If paper runs out during printing or when you replace paper, press the "feed tray descend switch" to lower the "feed tray".

1. Make sure that the machine stops.
If printing is in progress, press the STOP key.

2. Press the "feed tray descend switch".
The "feed tray" is lowered for the time that the "feed tray descend switch" is pressed.

REFERENCE

- When paper runs out or papers in the feed tray are removed, the feed tray is automatically lowered.

3. Follow steps 2, 3, and 4 in "How to Set Papers".
(→P.16 "How to Set Papers")

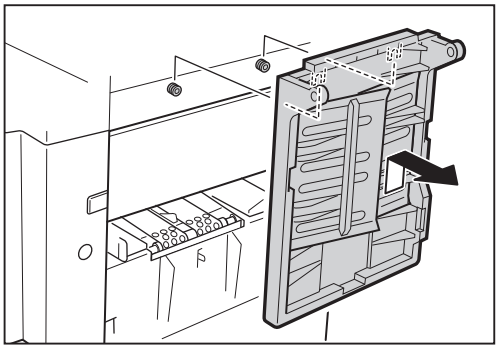
IMPORTANT

- When supplying different size paper, adjust the "side fences" and "paper stopper" again.
- When supplying different quality paper, adjust the "feed pressure adjuster lever" to the paper thickness.

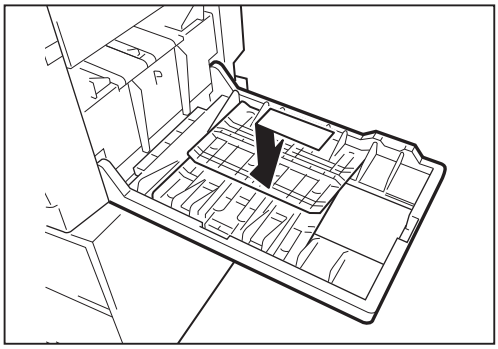
How to Set the Print Tray

The following describes how to set the print tray.

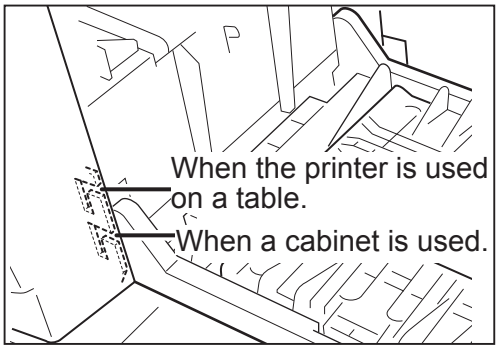
1 Remove the print tray.



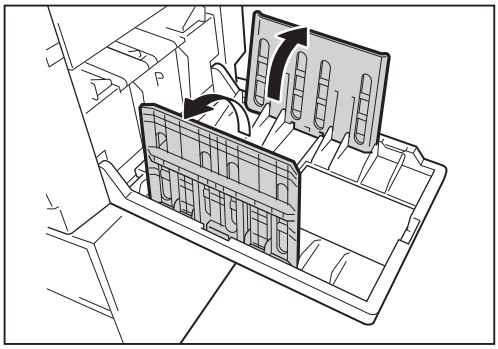
2 Install the print tray.



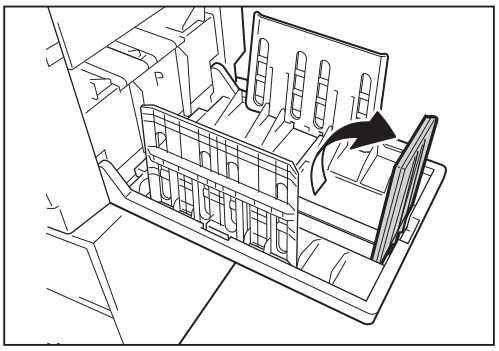
- When you use the printer on a table, install the print tray into the upper fitting.
  (Stacking capacity; 900 sheets, 64 gsm, high-grade paper)
- When you use a cabinet (option), install the print tray into the lower fitting.
  (Stacking capacity; 1300 sheets, 64 gsm, high-grade paper)



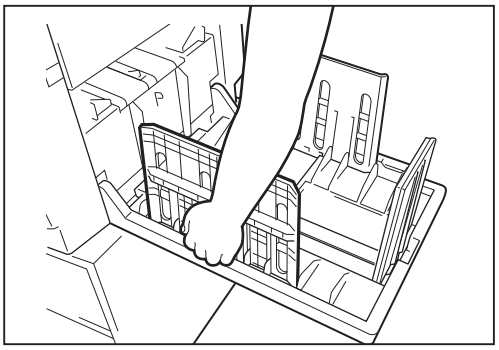
3 Open out the “side fences”.



4 Open out the “paper stopper”.



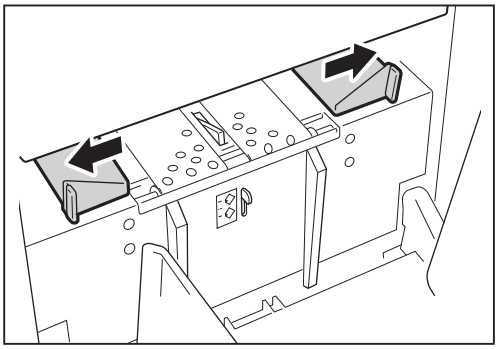
5 Adjust the “side fences” and the “paper stopper” according to the paper size.



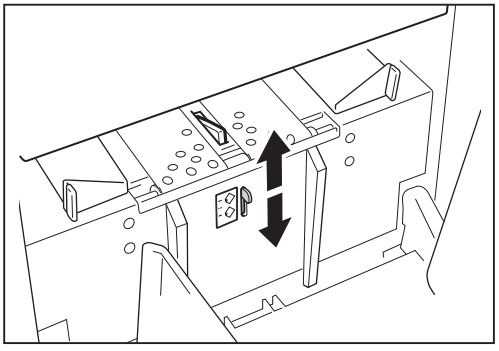
How to Adjust Printed Pages

Adjust the followings when the edges of the printed pages are not aligned.

■Adjusting the jump plate
Adjust the plate according to the paper size.
Example: Expand the guides fully when using B4 paper or larger size.



■Adjusting printed pages
When using thin paper, raise the lever.
When using thick paper, pull the lever down.



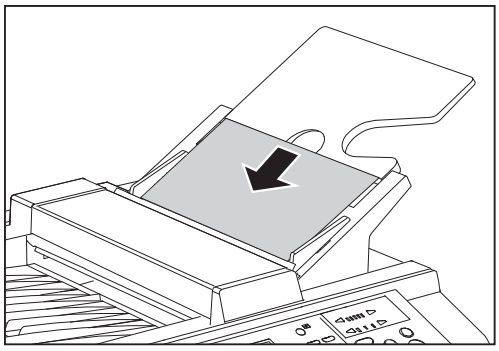
Loading Documents

Loading Document

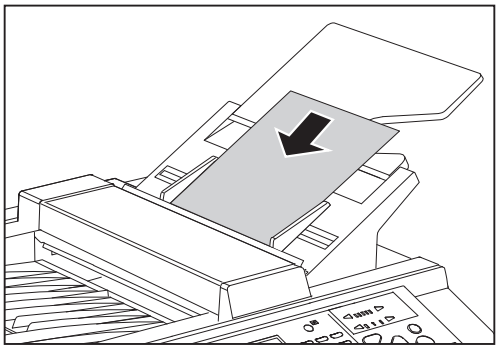
The document can be loaded in the “portrait” or “landscape” position.

IMPORTANT

- B5-size documents can be loaded in the “portrait” or “landscape” position.
- Use the portrait position when enlarging or reducing from standard-size documents to standard-size paper, such as A5 to A4.
- B4 and A4 documents can only be loaded in the landscape position.



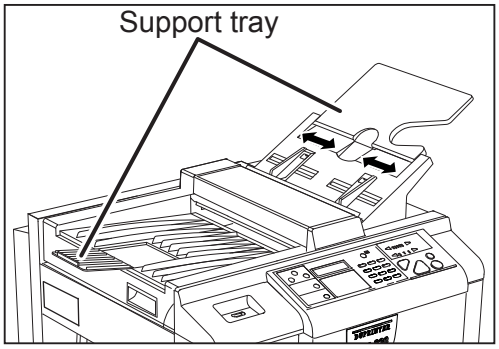
Landscape (Lateral) Placement



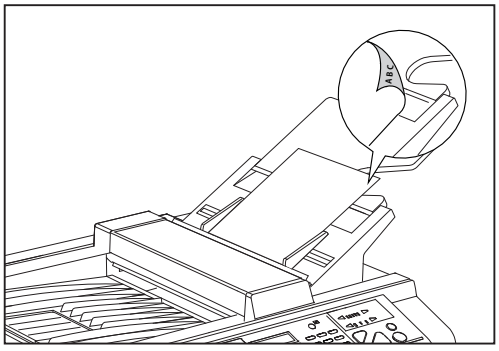
Portrait (Vertical) Placement

How to Load Document

1 Open the support tray.
Align the “document guides” with the “marks” for the size of document to be loaded.



2 Place the document face-down in the “document tray”.
Master making starts with the bottom document in the tray.



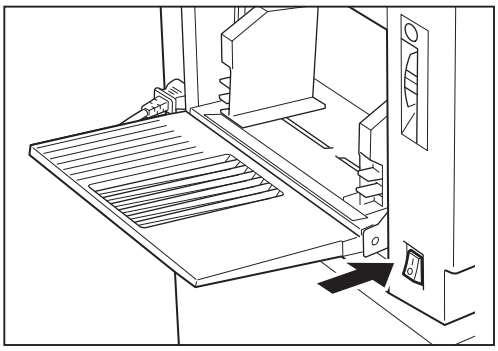
IMPORTANT

- Do not attempt to remove or add to the documents in the document tray while master making and printing are in progress.

Basic Printing

Printing Using Basic Functions

1 Press the “I” side on the power switch.
(→P.9 “Turning Power ON/OFF”)

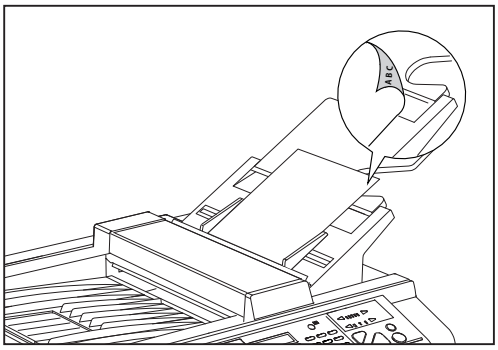


REFERENCE

- When the power is already turned on, press the RESET key. If the most recently entered setting remains, press the RESET key. The setting returns to Standard Mode.

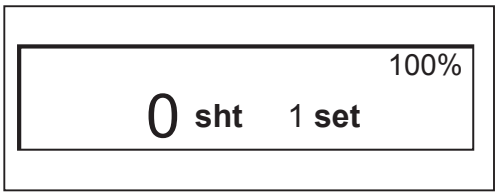
2 Load paper.
(→P.16 “How to Set Papers”)

3 Load the document.
(→P.20 “Loading Documents”)



4 Set the print tray.
(→P.18 “How to Set the Print Tray”)

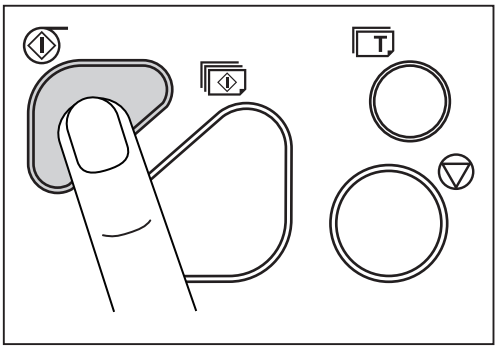
5 Make sure that the main screen appears on the LCD panel.



6 Set the functions.

Continue Page ···

7 Press the MASTER MAKING key.
When the master has been made, one test print is automatically made.



IMPORTANT

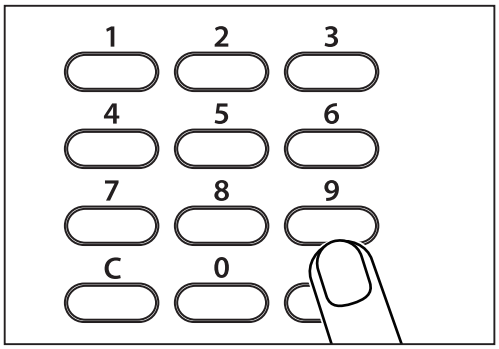
- The test print is for verification purposes only and may be fainter than the final print.

REFERENCE

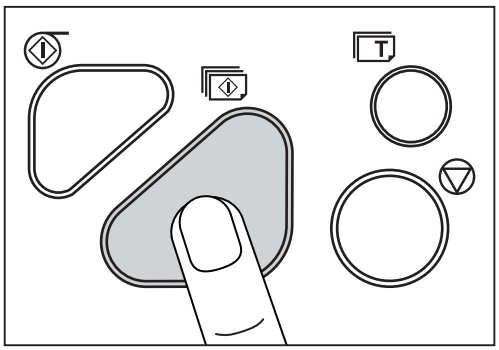
- You can enter the required number of prints before pressing the MASTER MAKING key to print the required number of prints.

8 Check the printing finish such as print position and print darkness, etc.

9 Use the NUMERIC keys to enter the number of prints.



10 Press the PRINT key.
The print run starts and the count displayed on the LCD panel decreases by one for each print made.
The printed pages are output to the print tray.



REFERENCE

- To stop a print run, press the STOP key. To restart the print run, press the PRINT key again.

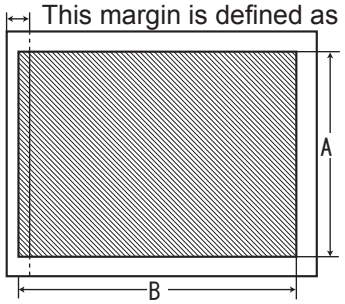
11 When you want to print multiple documents, repeat step 3 to 10.

Selecting Master Making Size

Master Making Area

● The following shows the image size that can be scanned for master making.

About 8 mm cannot be printed.



European

Paper Size	A (±1%) × B (±1%)
A4	204×291 mm
B4	251×358 mm
A5	142×204 mm
B5	176×251 mm

U.S.

Paper Size	A (±1%) × B (±1%)
LG	209.9×349.6 mm
LT	209.9×273.4 mm
ST	133.7×209.9 mm
MAX	DP-L200 : 210×291 mm DP-L210 : 210×358 mm DP-L220 : 251×358 mm
POST	94×142 mm

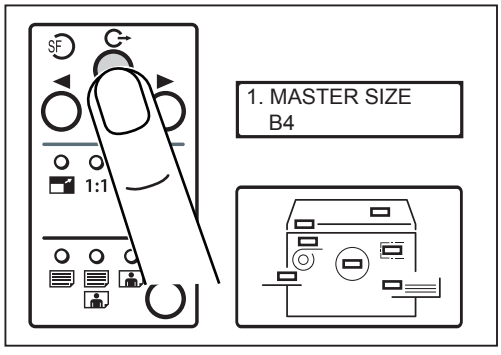
IMPORTANT

- Set Master Making Size before starting master making.
- When you do not set a Master Making Size and print to a smaller paper, the internal parts of the machine and the print may be soiled.
- You will not obtain the correct layout when you start multiple printing with the incorrect master size selected.

How to Set Master Making Size

Select a paper size.

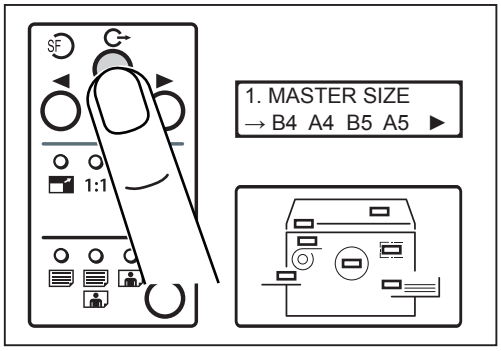
1 Press the FUNCTION key.
Press the SELECT key (Right) several times to show the screen at right.



Continue Page ···

Selecting Master Making Size

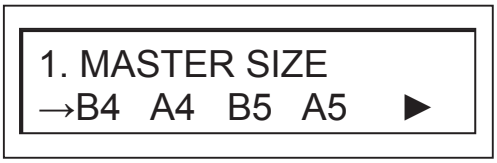
2 Press the FUNCTION key.
The master size selection screen appears.



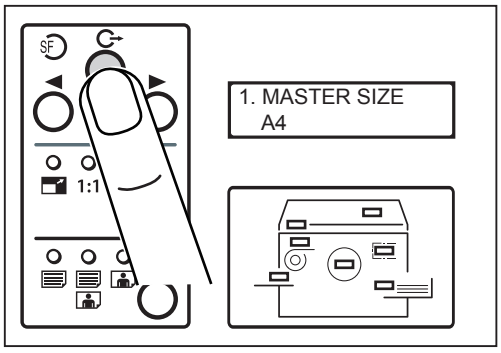
3 Press the ▶ SELECT key and display the Master making size to be used.
Each time the ▶ SELECT key is pressed, the display of the LCD panel changes as follows.

♦European paper sizes
- FOR <DP-L200>
  "A4"→ "B5"→ "A5"→ "POST"
- FOR <DP-L210>
  "LG"→ "A4"→ "B5"→ "A5"→ "POST"
- FOR <DP-L220>
  "B4"→"A4"→"B5"→"A5"→"POST"

♦U.S. paper sizes
- FOR <DP-L200>
  "LT"→ " ST"→" MAX"→ "POST"
- FOR <DP-L210>
  "LG" →" LT"→ "ST"→" MAX"→ "POST"
- FOR <DP-L220>
  "10×14"→"LG" →" LT"→"ST"→"MAX"→"POST"



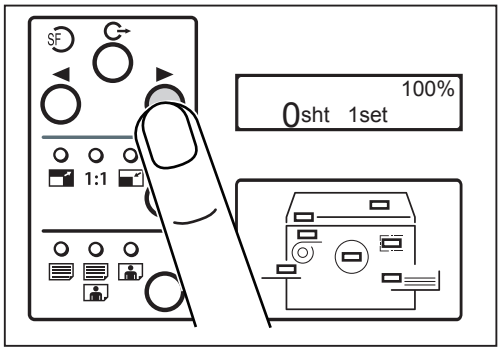
4 Press the FUNCTION key.
The Master Making Size is set.



5 Press the ▶ SELECT key (Right) several times to display the main screen.

REFERENCE

To reset to standard, use one of the following two methods:
- Return to the "MASTER SIZE" selection screen and set Master Making Size to "Default".
- Press the RESET key. In this case, all settings are reset to standard mode.



Selecting Image Mode

TEXT, TEXT/PHOTO, PHOTO

This function includes three modes for enhancing text and photographic documents.

■Text/Photograph/Text and Photograph Mode

In this mode, the print quality is adjusted to match the document.

Text　　Text/Photograph　　Photograph

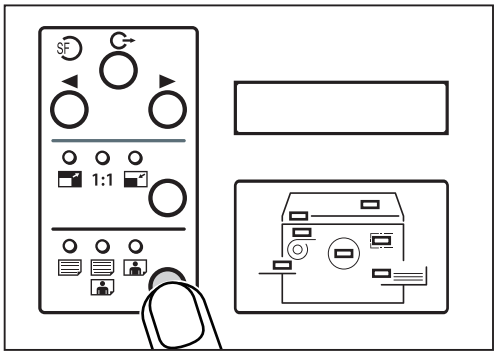
Text mode:	Enhances the printing of text documents.
Text/Photograph mode:	Enhances the printing of documents with both text and photographs.
Photo mode:	Enhances the printing of the subtle gradations of photographs and light images from color documents.

IMPORTANT

- Select “Text/Photograph/Text and Photograph Mode” before starting master making.

1 Proceed with steps 1 to 5 of the sequence described in “Basic Printing”.
(→P.21 “Basic Printing”)

2 Press the DOCUMENT MODE key to select the desired mode.
Each time the DOCUMENT MODE key is pressed, the lit document mode indicator lamp changes as follows.
“Text” → “Text/Photograph” → “Photograph” → “Text”...



REFERENCE

To return to “Text mode”, use one of the following two methods:

- Press the DOCUMENT MODE key to select “Text”.
- Press the RESET key. In this case, all settings are reset to standard mode.

Adjusting the Print Speed

Print Speed Adjustment

The default setting when the power is turned ON is standard speed: speed 2 (approximately 80 pages per minute).
The print speed can be adjusted in 3 steps as follows:

Speed 1: approximately 60 pages per minutes
Speed 2: approximately 80 pages per minutes
Speed 3: approximately 130 pages per minutes

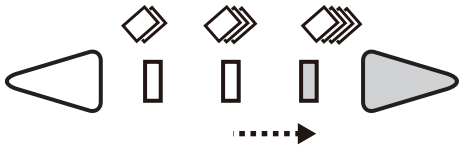
REFERENCE

- Paper jam may occur more frequently and the paper stacking may deteriorate with certain type of paper and with certain images depending on the print speed. Adjust the print speed for optimum print.
- You can adjust the print speed while the machine is printing.

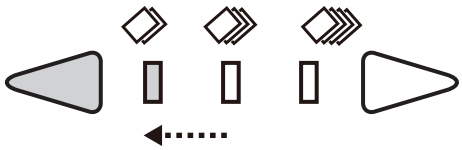
How to Adjust the Print Speed

1 Press the ◁ or ▷ key to adjust the print speed.

Press the ▷ key to accelerate printing.
The printing speed indicator lamp moves to the right.



Press ◁ key to decelerate printing.
The print speed indicator lamp moves to the left.



REFERENCE

To reset to standard speed: 2 (approximately 80 pages per minute), use one of the following two methods:

- Press the ◁ or ▷ key repeatedly until the print speed indicator lamp moves to the center.
- Press the ▨ RESET key.
  In this case, all settings are reset to standard mode.

Enlargement and Reduction

Enlarging/Reducing from Standard-Size Document to Standard-Size Paper

You can enlarge or reduce the size of the copy to the required size from standard-size documents to standard-size paper.

■ **Enlargements**

You can enlarge a standard-size document onto standard-size paper using the following zoom ratios:

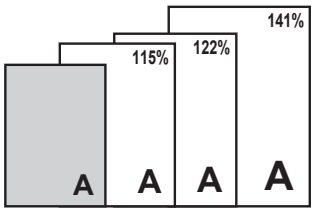
● European paper sizes

<DP-L200>

A5 → A4 ..... 141%
A5 → B5 ..... 122%
B5 → A4 ..... 115%

<DP-L220>

B5 → B4 / A5 → A4 ..141%
A4 → B4 / A5 → B5 ..122%
B5 → A4.....115%



● U.S. paper sizes

<DP-L200>

141%
ST → LT..... 129%
121%

<DP-L220>

141%
ST → LT..... 129%
121%

<DP-L210>

141%
ST → LT..... 129%
121%

■ **Reductions**

You can reduce a standard-size document onto standard-size paper using the following zoom ratios:

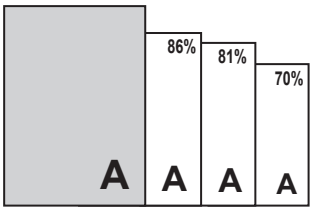
● European paper sizes

<DP-L200>

A4 → B5 .....86%
B4 → A4 / B5 → A5 ....81%
A3 → A4 / B4 → B5 ....70%

<DP-L220>

A3 → B4 / A4→ B5.....86%
B4 → A4 / B5 → A5....81%
A3 → A4 / B4 → B5....70%



● U.S. paper sizes

<DP-L200>

LGL→ LT.....77%
11×17→ LT 74%
11×17→ LT 64%

<DP-L220>

LGL→ LT.....77%
11×17→ LT 74%
11×17→ LT 64%

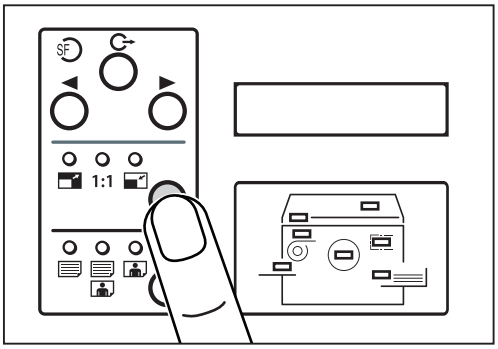
<DP-L210>

LGL→ LT.....77%
11×17→ LT.....74%
11×17→ LT.....64%

IMPORTANT

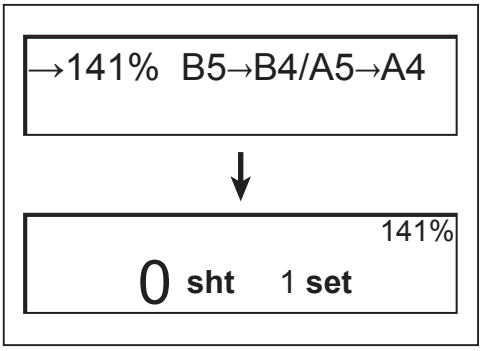
●Set the desired zoom ratio before starting master making.

1 Press the ENLARGEMENT/REDUCTION key.

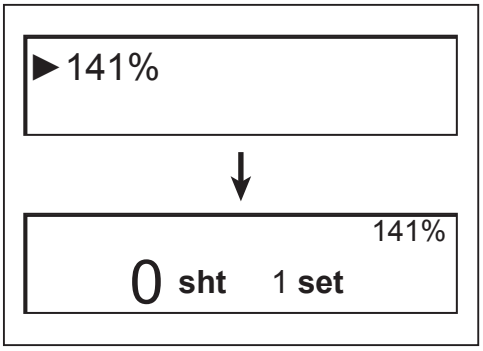


2 Press the ENLARGEMENT/REDUCTION key several times to display the desired zoom ratio. In about 3 seconds, the screen changes to the number display screen and the zoom ratio is selected.
Press the ENLARGEMENT/REDUCTION key to move the arrow on the LCD panel.

♦ European paper sizes



♦ U.S. paper sizes



REFERENCE

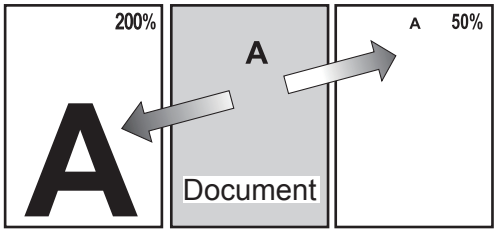
To return to “100%”, use one of the following two methods:
- Press the ENLARGEMENT/REDUCTION key several times to display 100%.
- Press the RESET key. In this case, all settings are reset to standard mode.

Free Zoom

You can set a zoom ratio between 50% and 200% in 1% steps.

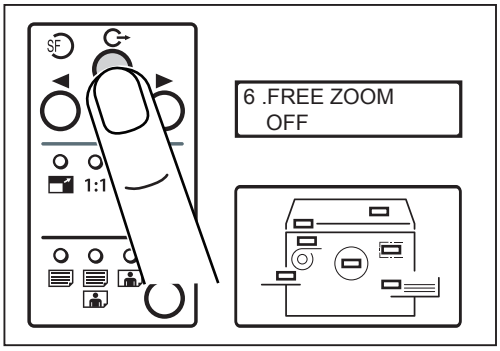
IMPORTANT

- Set Free Zoom before starting master making.
- You cannot set “Minor reduction” at the same time as “Free zoom”.

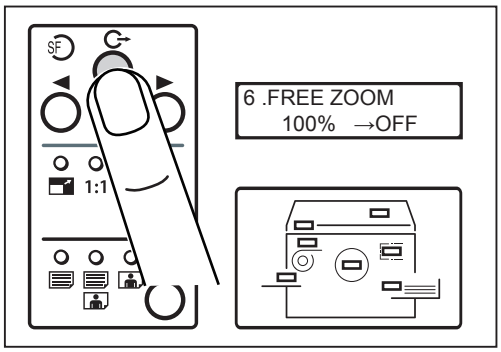


1. Proceed with steps 1 to 5 of the sequence described in “Basic Printing”.
(→P.21 “Basic Printing”)

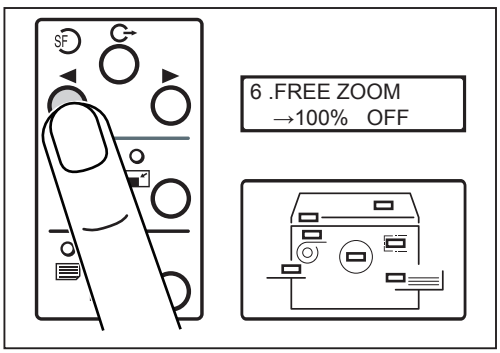
2. Press the [FUNCTION] key.
Press the [▶] SELECT key (Right) several times to show the screen at right.



3. Press the [FUNCTION] key.
The free zoom selection screen appears.

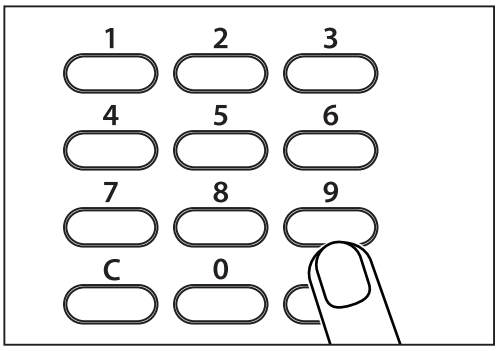


4. Press the [◀] SELECT key (Left) to select the current setting ratio.



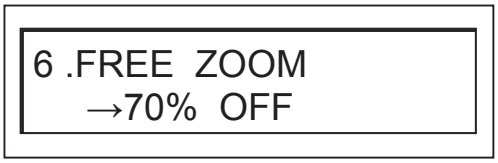
Continue Page ···

5 Use the NUMERIC key to enter the enlargement ratio / reduction ratio.
Example: 70%

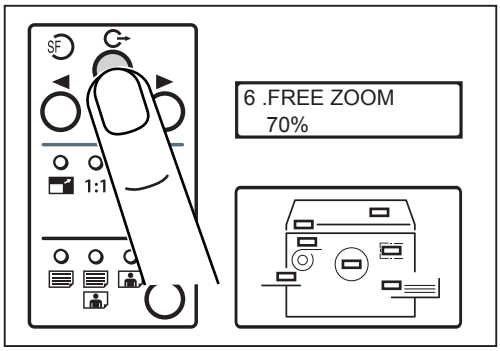


REFERENCE

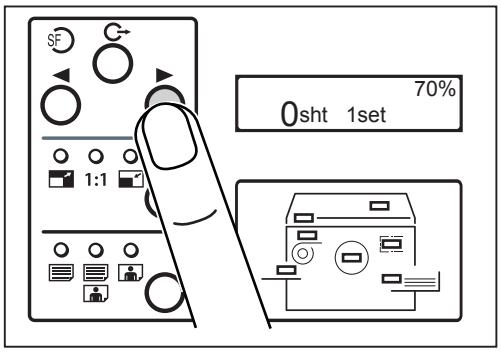
- You can enter a value for the scaling ratio within the range 50% to 200%. If you enter a value smaller than 50%, “50%” will automatically be selected and displayed, and if you enter a value larger than 200%, “200%” will automatically be selected and displayed.



6 Press the FUNCTION key.
The scaling ratio is set.



7 Press ▶ SELECT key (Right) several times to display the main screen.



REFERENCE

To reset to 100%, use one of the following two methods:

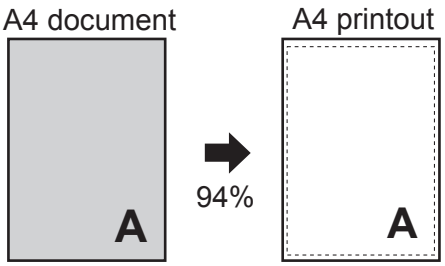
- Return to the “FREE ZOOM” selection screen and set this function to “OFF”.
- Press the RESET key.
  In this case, all the settings are reset to standard mode.

IMPORTANT

- Text and lines may appear jagged at high zoom ratios.

Minor Reduction

The copy is printed at 94% of the size of the document. Minor reduction is used when you want to create a binding margin or the document has text or illustrations that are in the non-master making area.

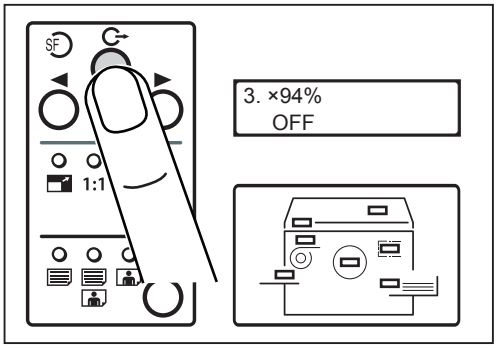


IMPORTANT

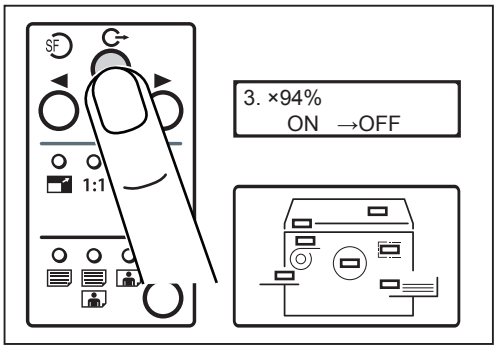
- Set Minor Reduction (×94%) before starting master making.

1 Proceed with steps 1 to 5 of the sequence described in “Basic Printing”.
(→P.21 “Basic Printing”)

2 Press the FUNCTION key.
Press the ▶ SELECT key (Right) several times to show the screen at right, then press the FUNCTION key again.

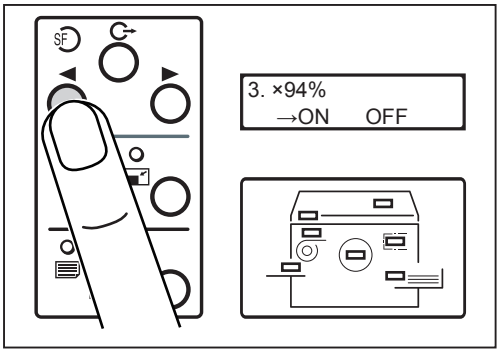


3 Press the FUNCTION key.
The ×94% selection screen appears.

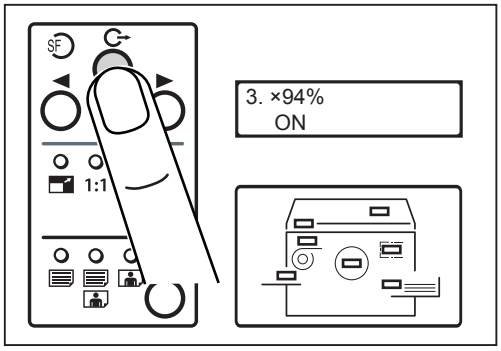


Continue Page ···

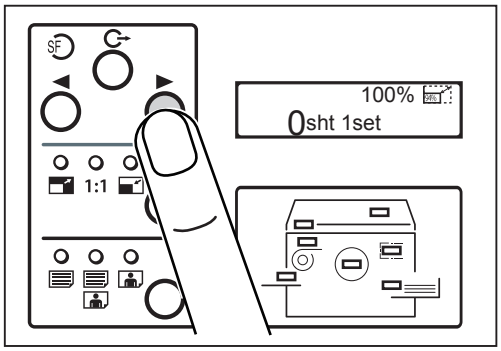
4 Press the ◄ SELECT key (Left) to select ON.



5 Press C→ FUNCTION key.
The "×94%" is set.



6 Press the ► SELECT key several times to display the main screen.



REFERENCE

To reset to 100%, use one of the following two methods:

- Return to the "×94%" selection screen and set this function to "OFF".
- Press the ▨ RESET key.
  In this case, all settings are reset to standard mode.

You can select 94% reduction even when you have selected other than "100%". In this case, the zoom ratio will be the zoom ratio (×94%) shown on the LCD.

Chapter 3

Printing With Useful Function

This chapter describes how to make prints using the useful printer functions.

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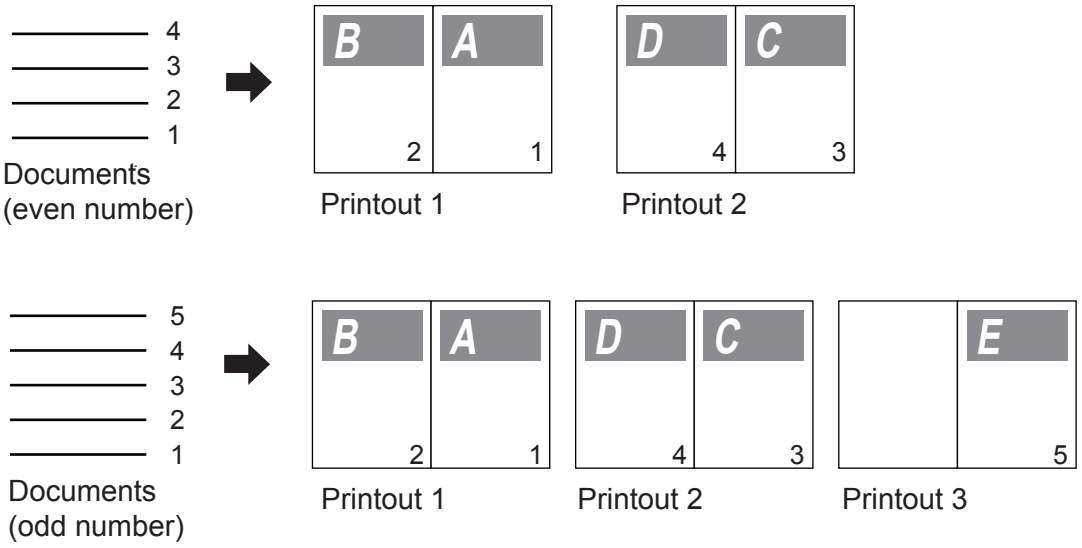
“ 2 IN 1” Layout

Two-in-one (2 IN 1) function allows you to print two small documents on one page and also makes it easy to print pages to create booklets that will be saddle stitched.
This is called “2 IN 1 Layout mode.”
When you use “2 IN 1 Layout mode”, the layout is as follows.



IMPORTANT

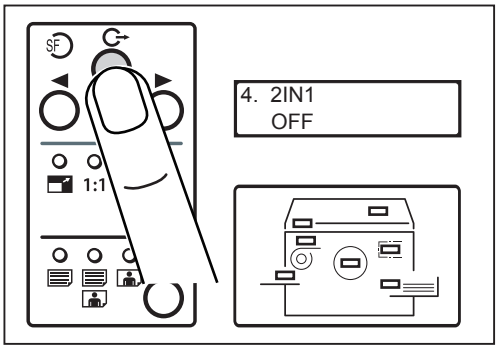
- If you are printing the documents at 100%, select a printing paper that is the size of the two documents.
- When you enlarge or reduce two documents size by side, select a zoom ratio so that the documents fit exactly on one page.
- Select “2 IN 1” function before starting master making.
- Correct layout may not be obtained with non-standard size paper.
- Note the following when using “2 IN 1 Layout mode”:

* You must load the document in the ADF in portrait orientation.
* You must select a master making size and zoom ratio that will accommodate two documents.

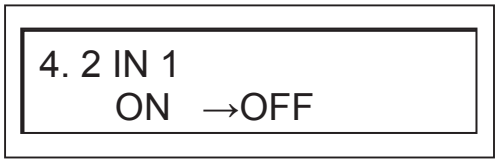
How to Set 2 IN 1

1 Proceed with steps 1 to 5 of the sequence described in “Basic Printing”.
(→P.21 “Basic Printing”)

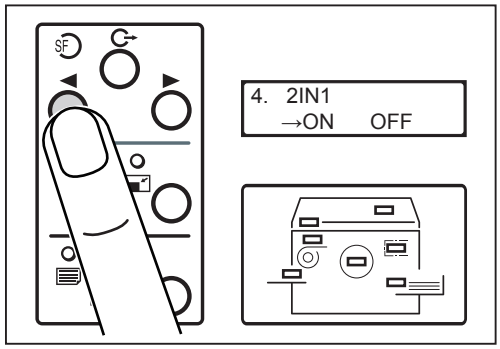
2 Press the FUNCTION key.
Press the ► SELECT key (Right) several times to show the screen at right.



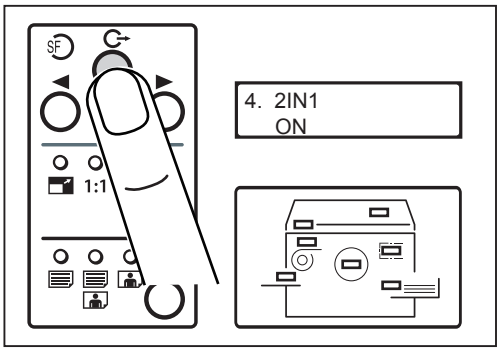
3 Press the FUNCTION key.
The 2 IN 1 screen appears.



4 Press the ◄ SELECT key (Left) to select “ON”.



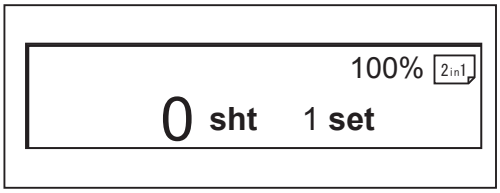
5 Press the FUNCTION key.
2 IN 1 mode is set.
Press the ► SELECT key (Right) several times to display the main screen.



REFERENCE

To cancel 2 IN 1 mode, use one of the following two methods:

- Set to “OFF” in the same procedure.
- Press the RESET key. In this case, all settings are reset to standard mode.



Adjusting Darkness

Master Darkness

The master darkness can be adjusted in 3 steps.
Make the master “darker” if the document is light, or “lighter” if the document is dark.

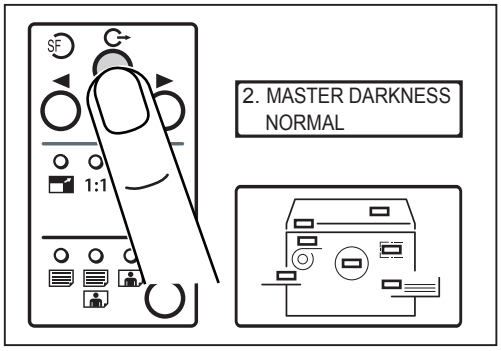
IMPORTANT

- Set the “Master Darkness” before making the master.
- If you adjust the master darkness, you must repeat the master making process before making prints.

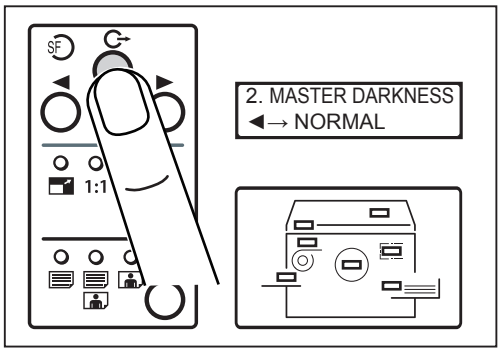
How to Adjust the Master Darkness

1. Proceed with steps 1 to 5 of the sequence described in “Basic Printing”.
(→P.21 “Basic Printing”)

2. Press the C FUNCTION key.
Press the ▶ SELECT key (Right) several times to show the screen at right.

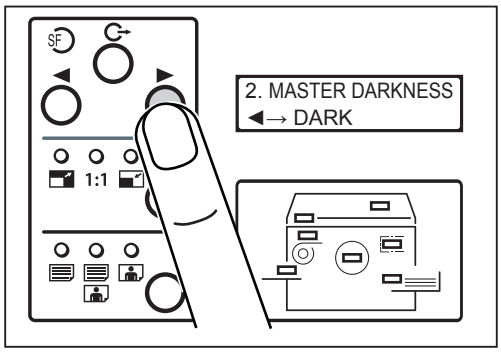


3. Press the C FUNCTION key.
The master darkness selection screen appears.

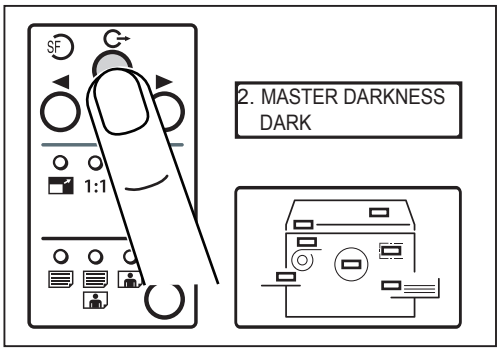


4 Press the ◄ SELECT key (Left) or ► SELECT key (Right) to display the desired master darkness.

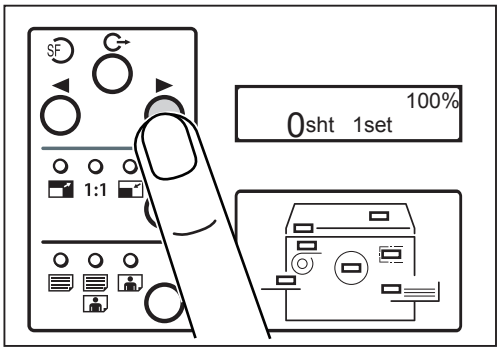
"LIGHT" → "NORMAL" → "DARK"



5 Press the ↻ FUNCTION key.
The master darkness is selected.



6 Press the ► SELECT key (Right) several times to display the main screen.



REFERENCE

To reset to "NORMAL", use one of the following two methods:

- Set the darkness to "NORMAL" in the same procedure.
- Press the ⊘ RESET key. In this case, all settings are reset to standard mode.

Batch Print/Sequential Batch Print

Batch Print/Sequential Batch Print

■ Batch Print

This function prints out the set number of sets (set number of print as one group). You can enter up to 15 sets of 'number of prints' × 'number of sets.'

The machine with tape cluster (option) inserts the tape after each set of prints.

Document

1st set
4 copies × 2 sets

2nd set
3 copies × 3 sets

3rd set
2 copies × 4 sets

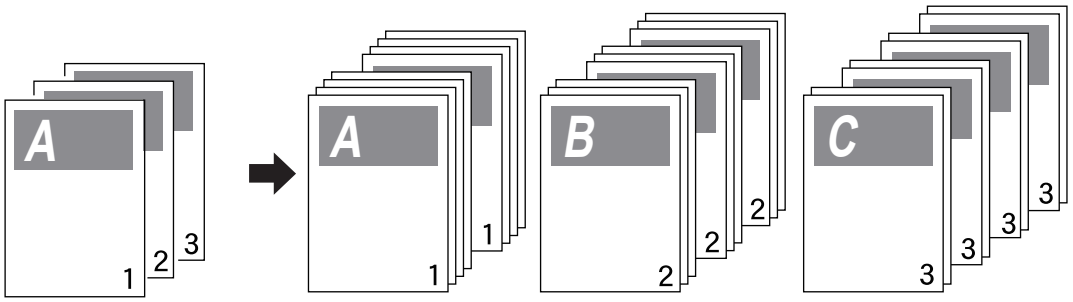
■ Sequential Batch Print

This function changes the number of prints made of each document.

You can enter up to 15 sets of 'number of prints' × 'number of sets' in each document.

IMPORTANT

● Set Sequential Batch Print before starting master making.



Documents

1st document
4 copies × 2 sets

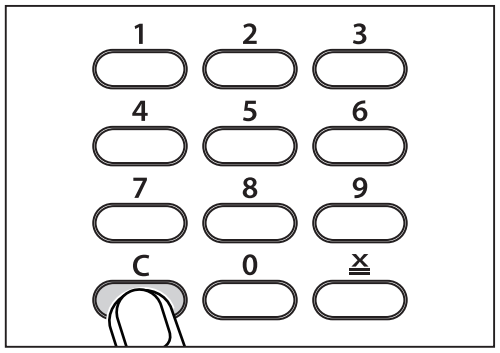
2nd document
3 copies × 3 sets

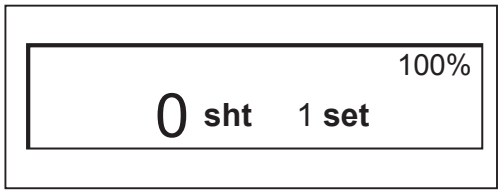
3rd document
2 copies × 4 sets

How to Enter Batch Print

1. Proceed with steps 1 to 5 of the sequence described in “Basic Printing”.
(→P.21 “Basic Printing”)

2. Press the C CLEAR key to clear the number of prints.

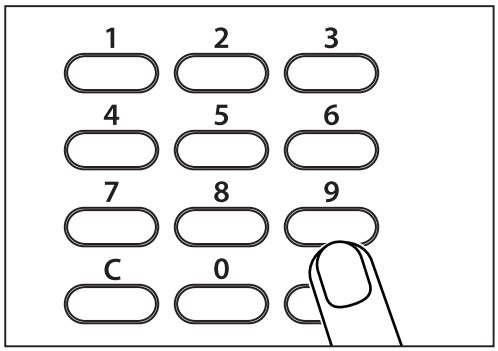


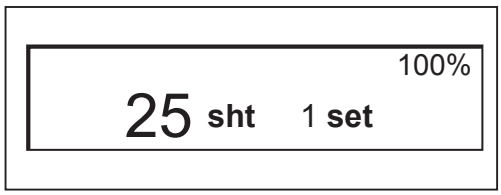


3. Use the NUMERIC keys to enter the number of prints.
Example: 25 sheets

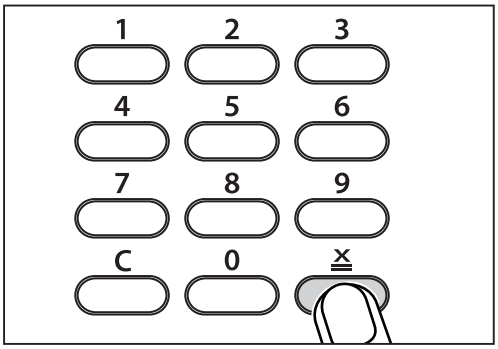
REFERENCE

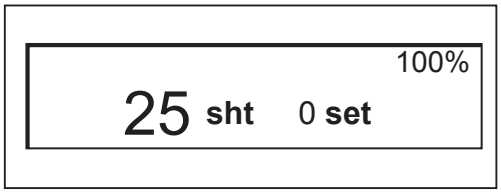
- If you enter incorrect values, press the C CLEAR key to start over again and start start from the beginning. When you press the C CLEAR key, both the number of prints and the number of sets are cancelled.





4 Press the ≜ key.
The number of prints is set.
The number of sets is changed to 0.



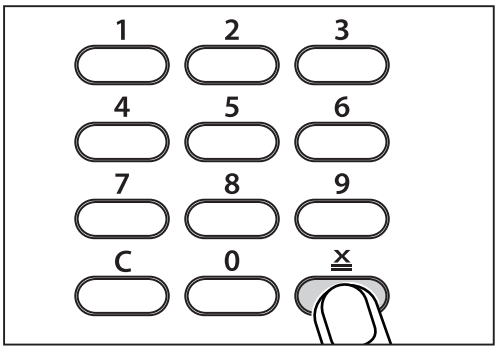


5 Use the NUMERIC keys to enter the number of sets.
Example: 3 sets

REFERENCE

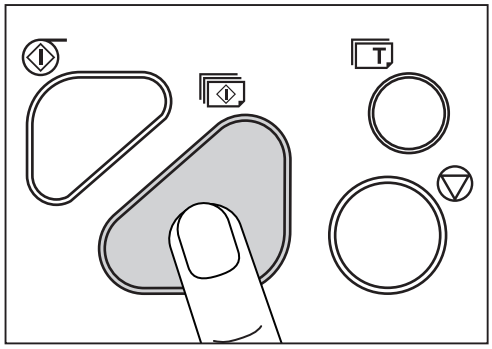
- If you enter incorrect values, press the C CLEAR key to start over again and start from the beginning. When you press the C CLEAR key, both the number of prints and the number of sets are cancelled.

6 Press the ≜ key.



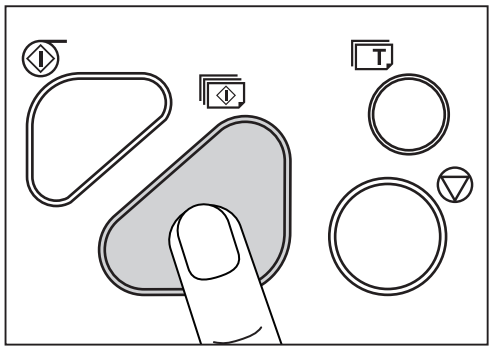
7 Repeat steps 3 to 6.

8 Press the PRINT key.
The print run starts from the last-entered set, and stops after the first set of printouts.



9 Insert interleaving paper as a mark or remove the printed papers.

10 Press the PRINT key.
Printing starts again.



11 Repeat steps 9 to 10 until the entered sets are completed.

IMPORTANT

- The MASTER MAKING key will not work until all the sets have been printed.
- To stop the print run, press the STOP key and then press the C CLEAR key.

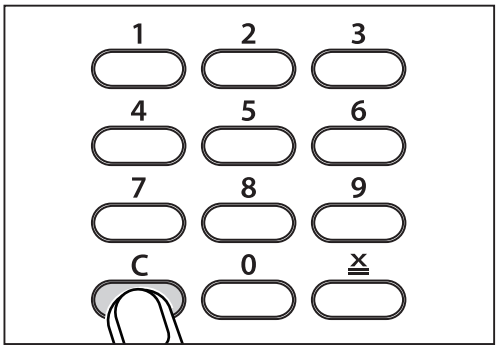
REFERENCE

- Using the optional tape cluster, you can successively perform collating of prints.

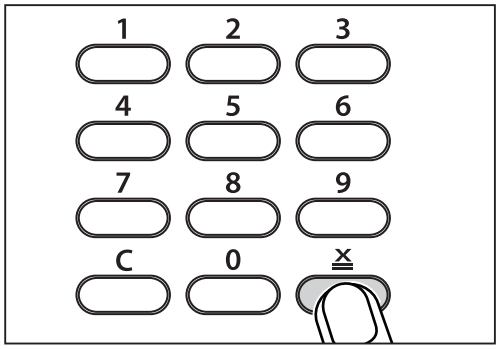
How to Enter Sequential Batch Print

1 Proceed with steps 1 to 5 of the sequence described in “Basic Printing”.
(→P.21 “Basic Printing”)

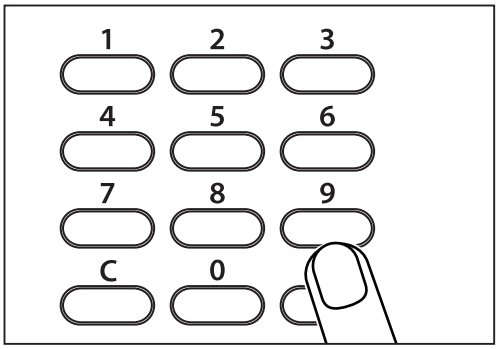
2 Press the C CLEAR key to clear the number of prints.



3 Press the ≜ key.
The “number of prints/sets” blinks and the machine enters Sequential Batch Setting mode.

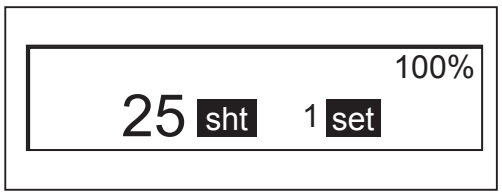


4 Use the NUMERIC keys to enter the number of prints.
Example: 25 sheets

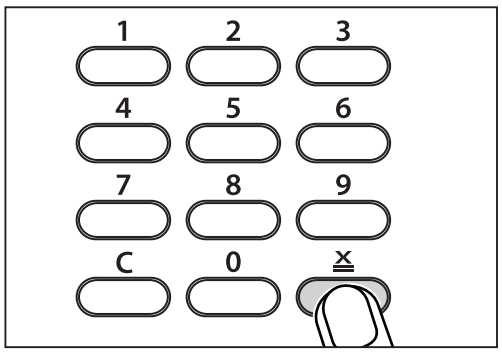


REFERENCE

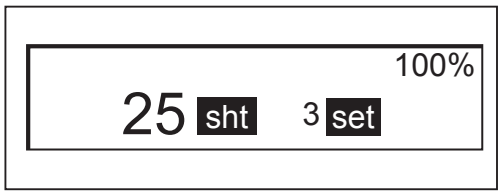
- If you enter incorrect values, press the C CLEAR key to start over again and start from the beginning. When you press the C CLEAR key, both the number of prints and the number of sets are cancelled.



5 Press the ≚ key.
The number of prints is set.
The number of sets is changed to 0.



6 Use the NUMERIC keys to enter the number of sets. Example: 3 sets

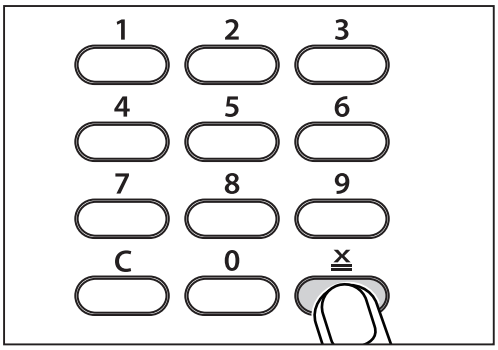


REFERENCE

- If you enter incorrect values, press the C CLEAR key to start over again and start from the beginning. When you press the C CLEAR key, both the number of prints and the number of sets are cancelled.

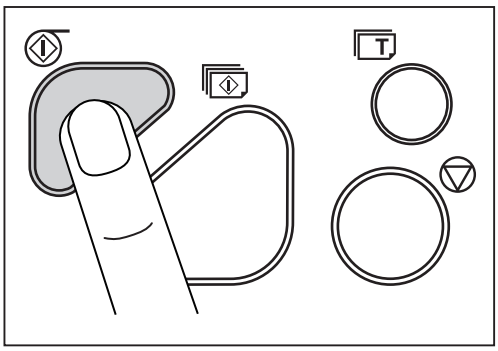
Continue Page ···

7 Press the ≚ key.



8 Repeat steps 3 to 7.
Up to 15 sets can be entered.

9 Press the MASTER MAKING key.



IMPORTANT

- When loading document, load the document for the first-entered number of prints and sets uppermost and the document for the last-entered number of prints and sets at the bottom.
- Master making and printing starts from the lastentered print and set quantities.

10 After the first document is printed, master making of the next document and printing will automatically start.

REFERENCE

- Using the optional tape cluster, you can successively perform the master making and collating of prints of multiple documents.

Dividing Sections with Tape (Available Only with Tape Cluster Unit Installed)

Only the specified number of sets is printed with the specified number of prints taken as one set. Paper tape is inserted when printing of each set is completed.
You can enter up to 15 groups of number of prints × number of sets.

IMPORTANT

- The optional tape cluster is required for dividing sections with tape.
- When using this function, refer to the Instruction Manual of the “tape cluster”.

Adjusting the Print Position

Print Position Adjustment

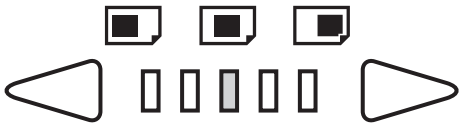
After master making has finished, you can fine-tune the position of the image (in the horizontal direction) within ±10 mm.

REFERENCE

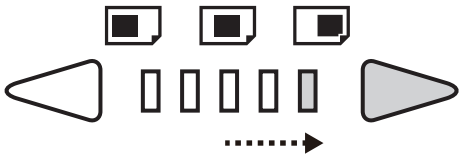
- You can adjust the printing position while the machine is printing.

How to Adjust the Print Position

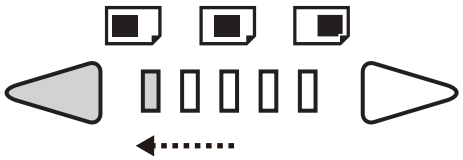
1 Press the ◁ or ▷ PRINT POSITION key to adjust the print position.
The print position smoothly changes while the key is being pressed.



- To move the print position to the right, press the ▷ key. The print position indicator lamp moves to the right.



- To move the print position to the left, press the ◁ key. The print position indicator lamp moves to the left.



REFERENCE

To reset the print position to the center, use one of the following two methods:

- Press the ◁ and ▷ keys simultaneously.
  The print position indicator lamp moves to the center.
- Press the ▨ RESET key. In this case, all settings are reset to standard mode.

Chapter 4

Other Functions

This chapter describes miscellaneous functions such as the confidential safeguard function, and the print speed and print position adjustments.

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Memory Mode

Memory Mode

You can save and retrieve nine sets of settings for master making and printing.
The settings are stored in memory even when the power is turned OFF.

REFERENCE

The following settings are saved:

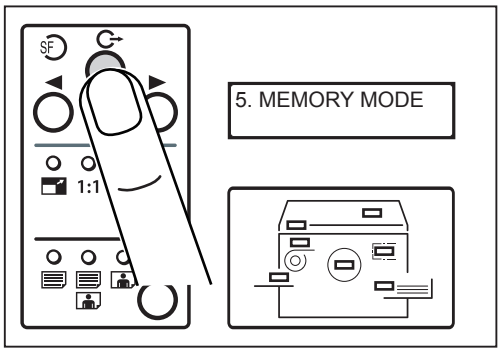
- Number of prints/sets
- Master making size
- Master darkness
- Image mode
- Zoom ratio (Fixed zoom ratios only)
- ×94%
- Print speed
- Print position

How to Save the Settings

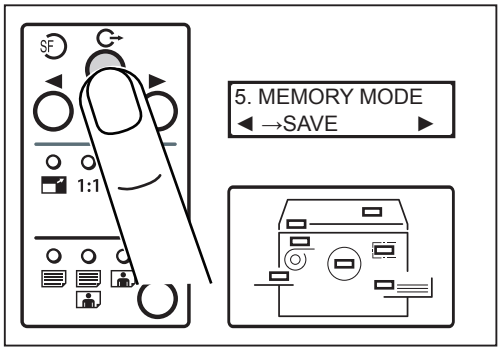
1. Proceed with steps 1 to 5 of the sequence described in “Basic Printing”.
(→P.21 “Basic Printing”)

2. Check that the LCD panel displays the settings to be set.

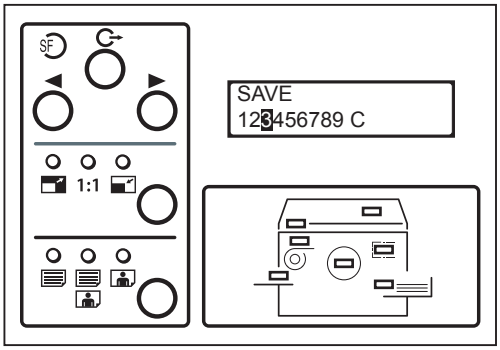
3. Press the FUNCTION key.
Press the ▶ SELECT key (Right) several times to show the screen at right.



4. Press the FUNCTION key.
Press the ▶ SELECT key (Right) several times, select “SAVE”, then press the FUNCTION key.
Each time the ▶ SELECT key is pressed, the arrow on the LCD panel moves as follows.
“RETRIEVE” → “SAVE” → “CLEAR” → “CANCEL”



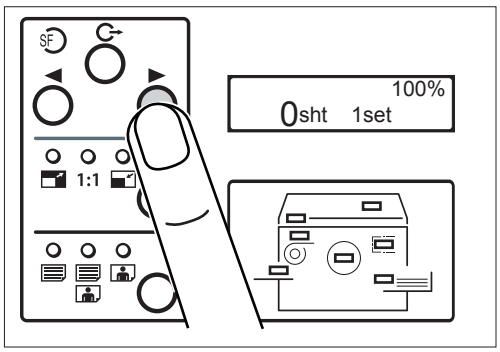
5 Use the NUMERIC key to select the number you want to save.
You can save nine sets of settings in 1 to 9.
To cancel the selected number, press the C CLEAR key.



REFERENCE

- The already saved memory number blinks. Select the number that does not blink.

6 The screen changes to the MEMORY MODE screen. The settings are saved.
Press the ▶ SELECT key (Right) several times to display the main screen.

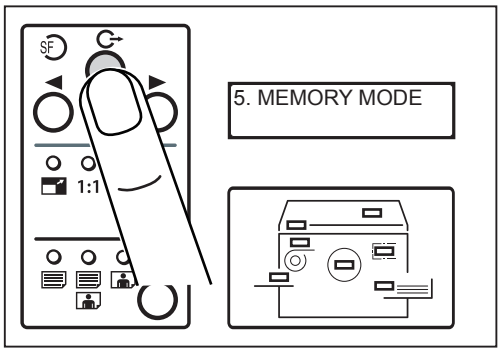


IMPORTANT

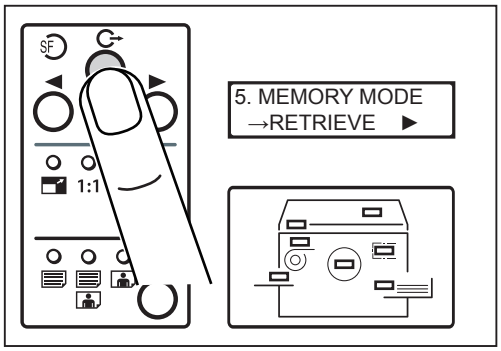
- Any previous settings stored in the memory channel will be deleted when you save new settings.

How to Retrieve the Settings

1 Press the [FUNCTION] key.
Press the [►] SELECT key (Right) several times to show the screen at right.



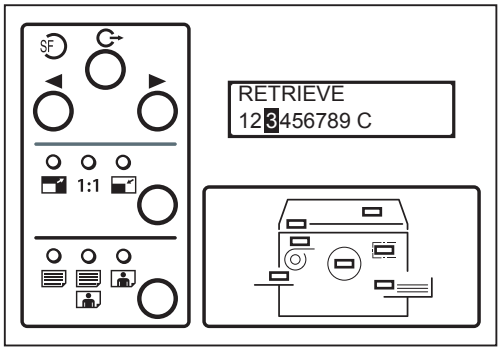
2 Press the [FUNCTION] key.
Press the [►] SELECT key (Right) several times to display “RETRIEVE”.
Each time the [►] SELECT key (Right) is pressed, the arrow on the LCD panel moves as follows.
“RETRIEVE” → “SAVE” → “CLEAR” → “CANCEL”



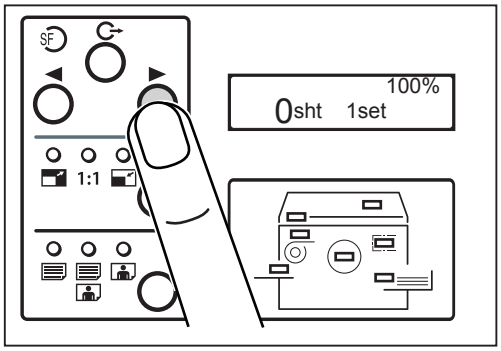
3 Press the [FUNCTION] key.
Use the NUMERIC key to select the number you want to retrieve.
To cancel the selected number, press the [C] CLEAR key.

REFERENCE

- The saved memory number blinks. Select a blinking number.

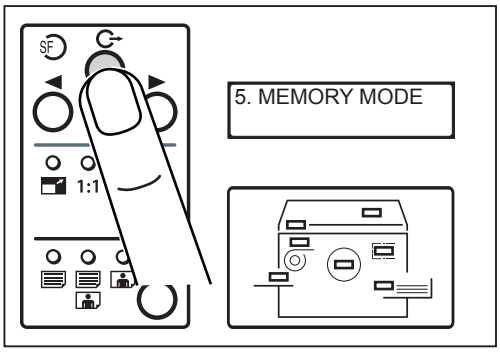


4 The screen changes to the MEMORY MODE screen.
The settings are saved.
Press the [►] SELECT key (Right) several times to display the main screen.

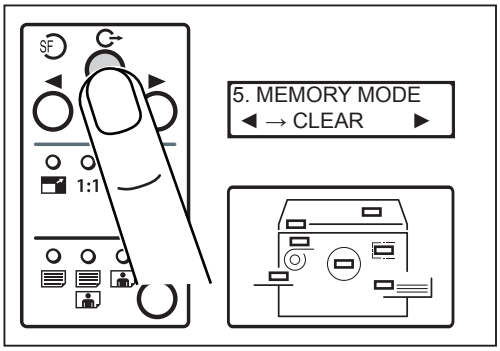


How to Clear the Settings

1 Press the C FUNCTION key.
Press the ► SELECT key (Right) several times to show the screen at right.



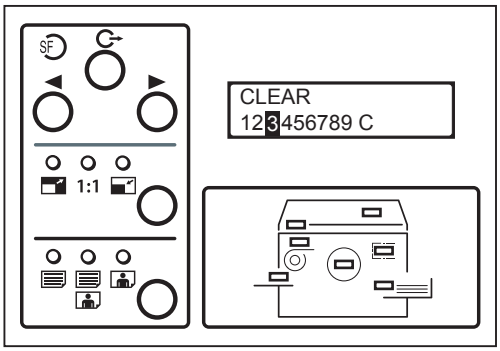
2 Press the C FUNCTION key.
Press the ► SELECT key (Right) several times to display “CLEAR”.
Each time the ► SELECT key (Right) is pressed, the arrow on the LCD panel moves as follows.
“RETRIEVE” → “SAVE” → “CLEAR” → “CANCEL”



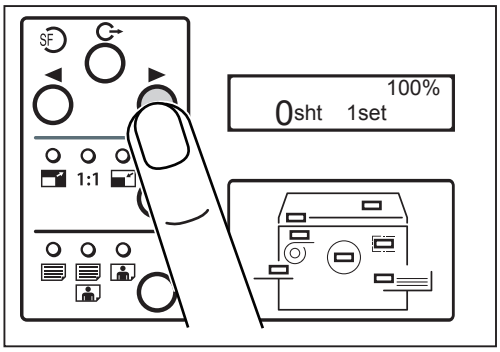
3 Press the C FUNCTION key.
Use the NUMERIC key to select the number you want to retrieve.
To cancel the selected number, press the C CLEAR key.

REFERENCE

- The saved memory number blinks. Select a blinking number.



4 The screen changes to the MEMORY MODE screen.
The settings are saved.
Press the ► SELECT key (Right) several times to display the main screen.



Confidential Safeguard

Confidential Safeguard

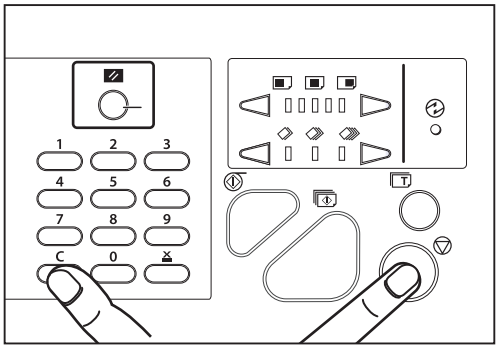
The confidential safeguard function, which prevents printing unless master making has been completed, is a simple means of prohibiting others from printing sensitive documents.

IMPORTANT

- When the Confidential Safeguard function is set, printing and test printing cannot be performed. Other operations can be performed as normal.
- Turning the power off does not cancel the Confidential Safeguard function.
- Once master making has been carried out, the Confidential Safeguard function is canceled.

How to Set Confidential Safeguard

1 Press the STOP key while also pressing the C CLEAR key.
The machine beeps and the Confidential Safeguard function is activated.



2 Press the PRINT key or TEST PRINT key to check that no print is made.

REFERENCE

- The message “PLEASE MASTER MAKING” is displayed on the LCD panel and the machine will not print when you press the PRINT or TEST PRINT key while the Confidential Safeguard function is ON.
- To cancel the Confidential Safeguard function, press the MASTER MAKING key to start master making.

Online Mode (Available Only With Interface Kit Installed)

Making Prints Using Personal Computer

This function allows you to make prints of documents using a personal computer.

IMPORTANT

- PC interface kit is required to connect this machine to a personal computer.
- Please contact your service personnel on information regarding installation and settings.

How to Make Prints in Online Mode

1. Check that the main screen is displayed.

2. Use the print command of the computer applications according to the manual.
Master making and printing start automatically.

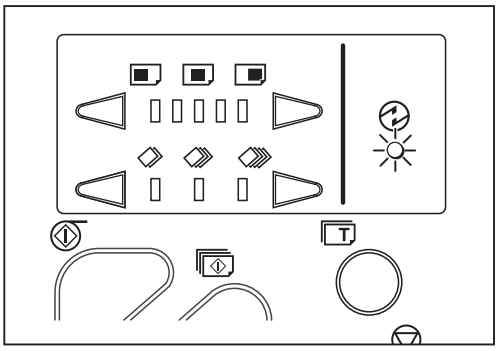
REFERENCE

When master making ends and printing starts, you can again use the keys on the control panel.

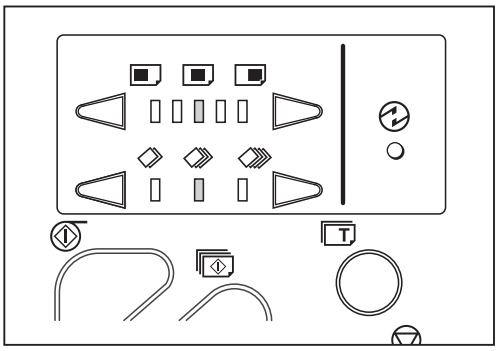
Energy Save mode

Machine will automatically be energy saving mode if there is no operation for prescriptive time, in this mode, the LCD is off, the energy save mode lamp is lighting.

1. If there is no operation for prescriptive time, machine will automatically be energy save mode, the LCD will be off.



2. Press any key to wake up.
Machine will be standby mode and can be work normally.



Ink Save Mode

Ink Save Mode

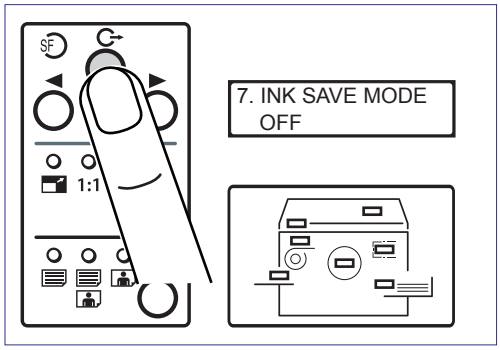
You can set to ink save mode in order to save printing ink.

IMPORTANT

- Print image may be lighter in this mode.
- Set ink save mode before making a master.

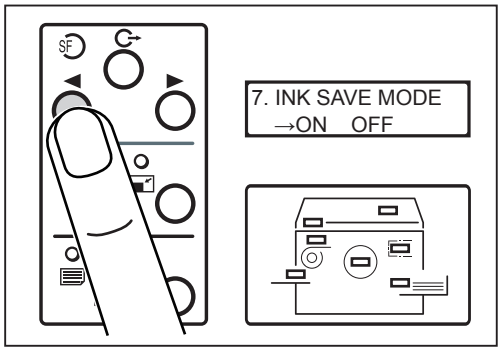
How to Set Ink Save Mode

1 Press the C FUNCTION key.
Press the ▶ SELECT key (Right) several times to show the screen at right.

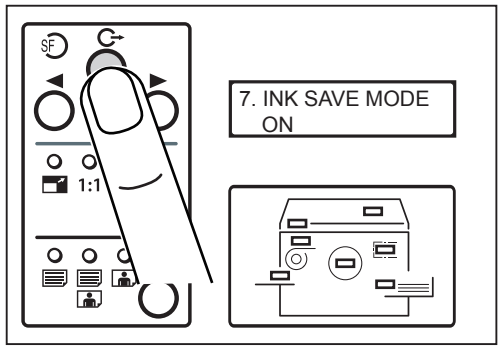


2 Press the C FUNCTION key.
The ink save mode screen appears.

3 Press the ◀ SELECT key (Left) to select “ON”.



4 Press the C FUNCTION key.
Ink save function is set.
Press the ▶ SELECT key (Right) several times to display the main screen.



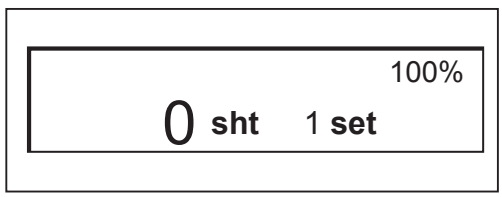
REFERENCE

To reset to OFF:

- Set the “ink save mode” to “OFF” in the same procedure.

IMPORTANT

- Pressing the C RESET key or turning power off can not change the set of ink save mode.



Total Counter Display

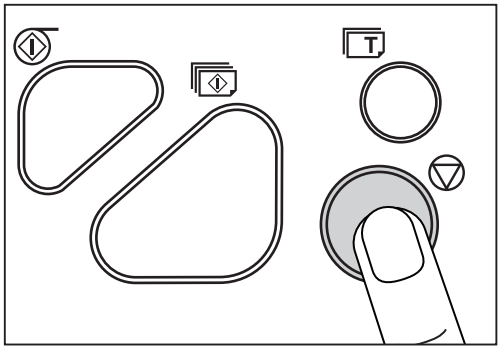
This function displays the total numbers of prints and masters on the LCD panel.

1 Check that the machine is not printing.

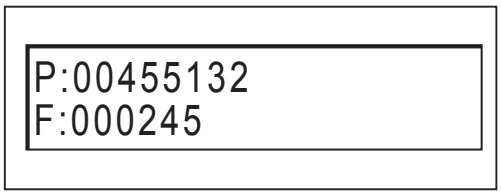
IMPORTANT

- If the machine is printing, press the ▽ STOP key to stop the print run.

2 Press the ▽ STOP key.
The total print and master counts are displayed while you press and hold the ▽ STOP key.



The number of prints is displayed on the upper side and the number of masters on the right side of the LCD panel.
Example: In this example, the total number of prints is 455132, and the total number of masters is 245.



Chapter 5

Replacing Consumables

This chapter describes how to supply paper, ink pack, and other consumables.

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Replacing the Drum Unit 67
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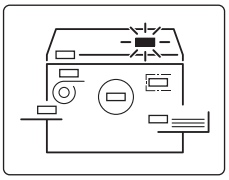
Replacing the Ink Pack

Replacing the Ink Pack

The message “EXCHANGE INK” is displayed on the LCD panel when the remaining ink is low. Replace the “ink pack” using the following procedure.

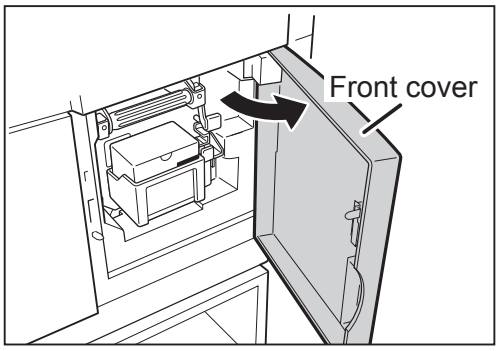


IMPORTANT

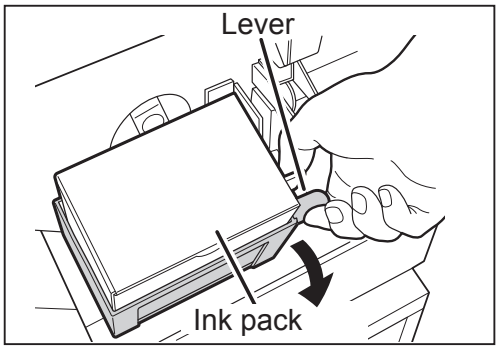
- Only use ink packs designed for this machine.
- If you do not use the specified ink packs, it may cause decrease in machine performance or the machine to malfunction.
- Be sure to install an ink pack. Do not operate the machine without an ink pack.
- Dispose of used ink packs according to the regulations in your area.

How to Replace the Ink Pack

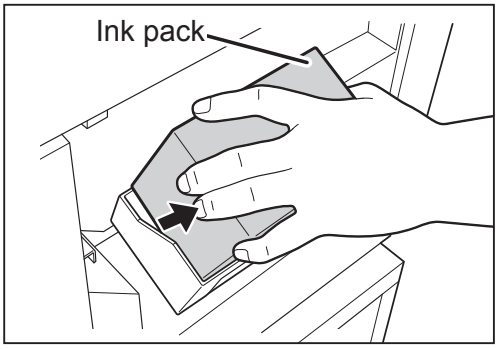
1 Open the “front cover”.



2 Grasp the “lever” and pull it toward you.



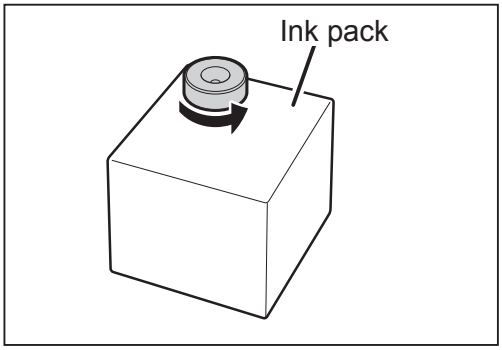
3 Lift out the empty “ink pack”.



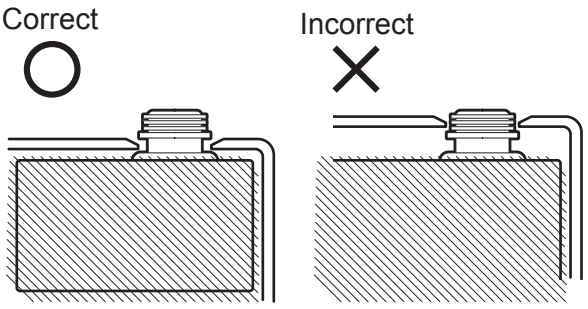
4 Remove the “cap” from a new “ink pack”.

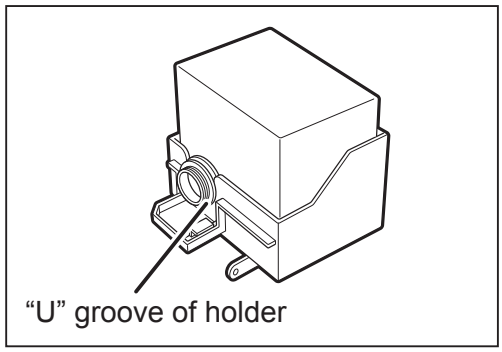
IMPORTANT

- Do not leave an ink pack uncapped for longer than necessary.

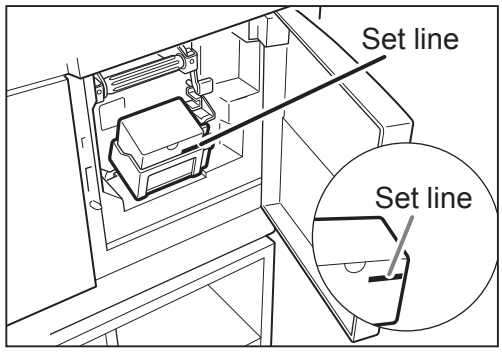


5 Insert the “ink pack” so that the groove on the lip fits onto the “U” groove of the holder.

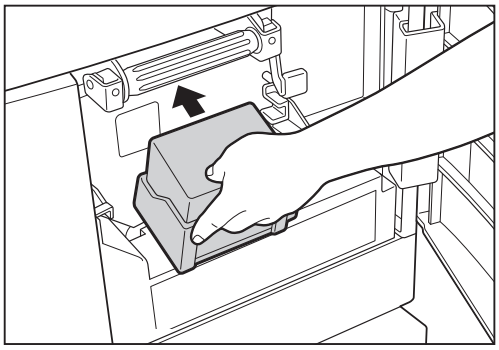




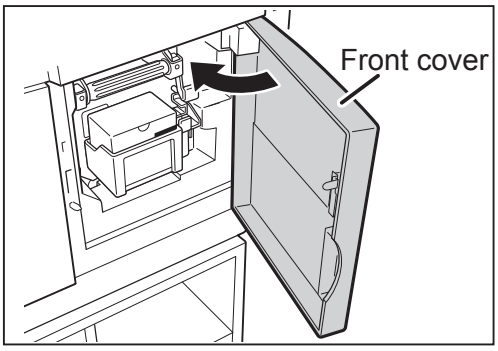
6 Push the “ink pack” in to the set line on the ink pack.



7 Press the back of the holder in with the palm of your hand.



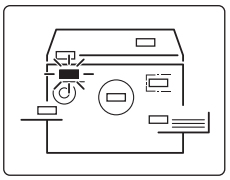
8 Close the “front cover”.



Replacing the Roll Master

Replacing the Roll Master

The message “ROLL-MASTER END” is displayed on the LCD panel when the roll master is used up. Replace the roll master using the following procedure.



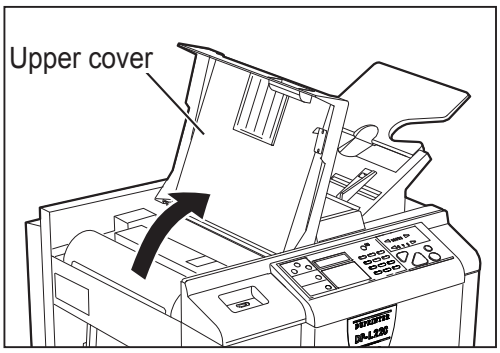
ROLL-MASTER END

IMPORTANT

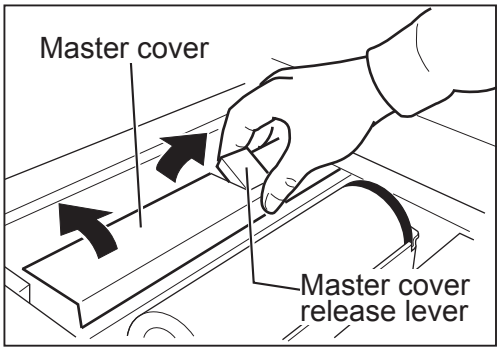
- Only use roll masters designed for use in this machine.
- If you do not use the specified roll masters, it may cause decrease in machine performance or the machine to malfunction.
- Do not put anything heavy on the roll master box as this could scratch the master, causing the machine to perform master making incorrectly.
- Once the roll master is taken out of the box, install it immediately, otherwise foreign materials may become attached to the surface of the master and cause the machine to perform master making incorrectly.
- Do not store roll masters in areas subject to direct sunlight, high/low temperature, and high/low humidity.

How to Replace the Roll Master

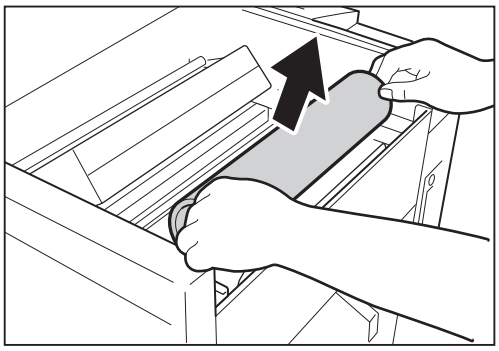
1. Open the “upper cover”.



2. Pull the “master cover release lever”. The master cover will open up.



3 Lift out the used “roll master”.



⚠ WARNING

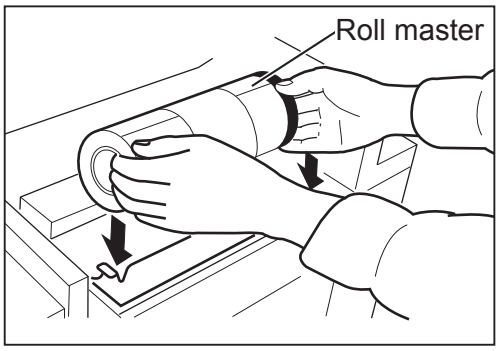
- Do not remove the cover affixed with the warning label.
- Personnel may be injured by the movable cutter inside the machine.

IMPORTANT

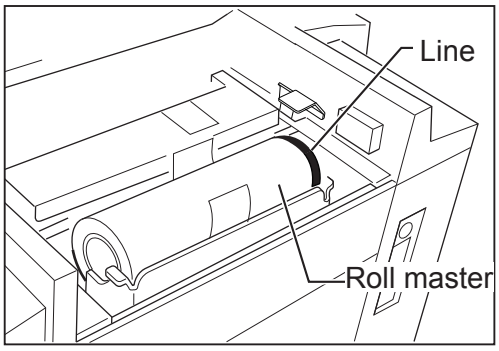
- Do not touch the heat generator of the thermal head.
  Doing so may cause damages, leading to a malfunction of master making.

4 Take out a new roll master from the bag.

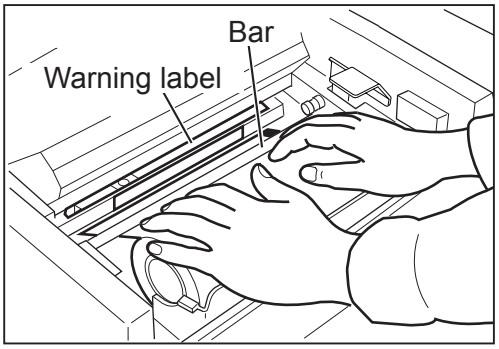
5 Insert the “roll master” into the machine so that the black line is at the control panel side.



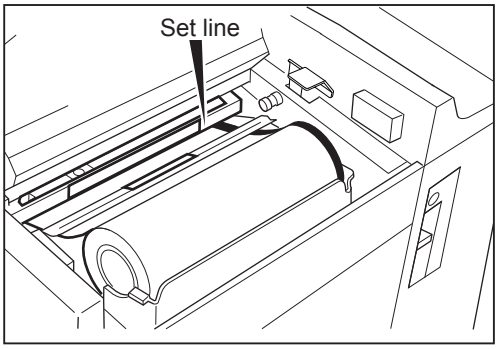
6 Remove the “seal”.



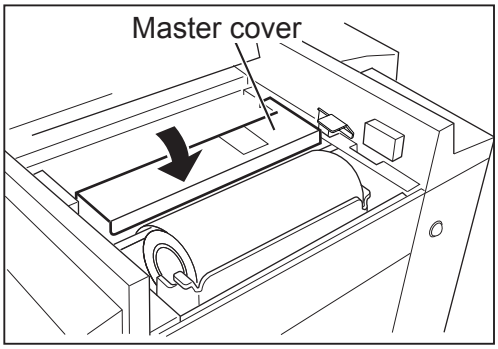
7 Pull out the “master” and pass it under the “bar”.



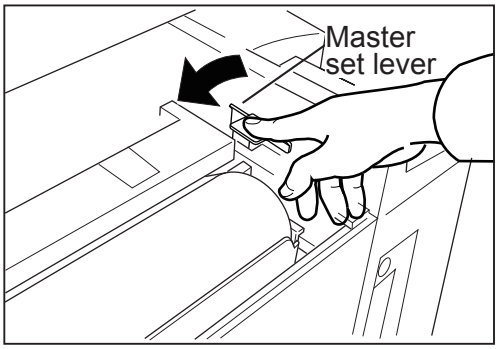
8 Insert the “master” until the master’s leading edge aligns with the “set line”.



9 Close the “master cover”.



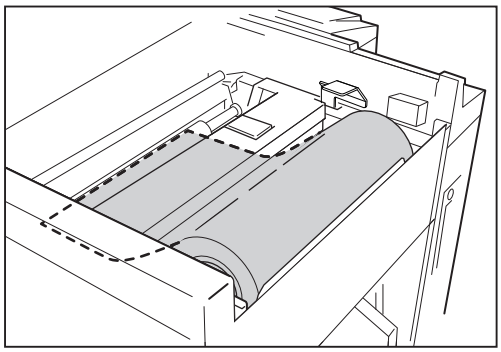
10 Push the “master set lever”.
The master will be pulled in.



IMPORTANT

- If the master is not pulled in, open the master cover and gently press in as far as possible to set again.

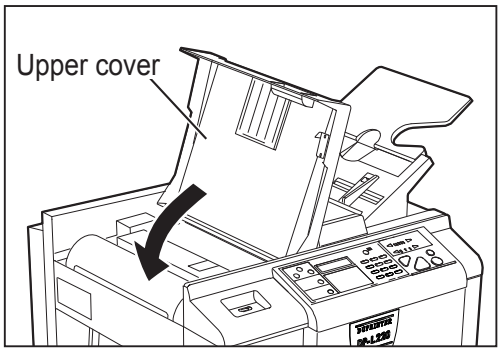
11 Make sure that the leading edge of the master is protruding from the inner side of the master cover.



IMPORTANT

- If the master cannot be set correctly, its leading edge will not be visible. Open the master cover, and set again.

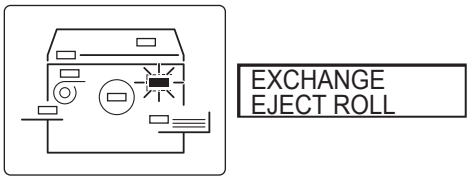
12 Gently close the “upper cover”.



Disposing Of Used Master

Disposing Of Used Master

The message “EXCHANGE EJECT ROLL” is displayed on the LCD panel when the master ejection core is full. Remove the master ejection core using the following procedure.

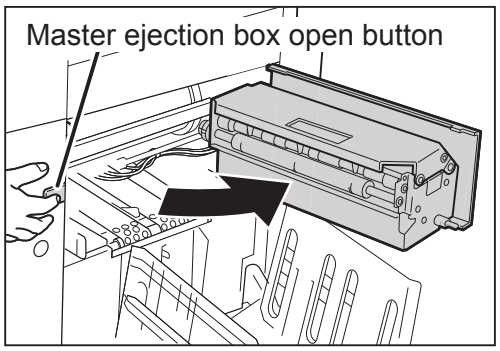


IMPORTANT

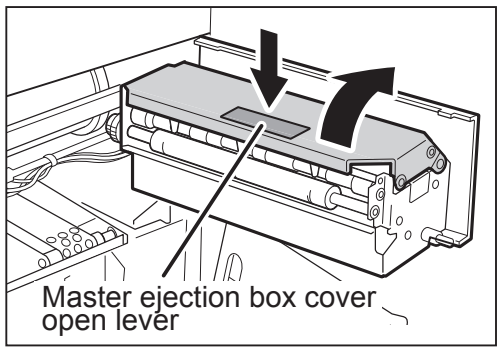
- Only use master ejection cores designed for use in this machine.
- If you do not use the specified master ejection cores, it may cause decrease in machine performance or the machine to malfunction.

How to Dispose Of Used Master

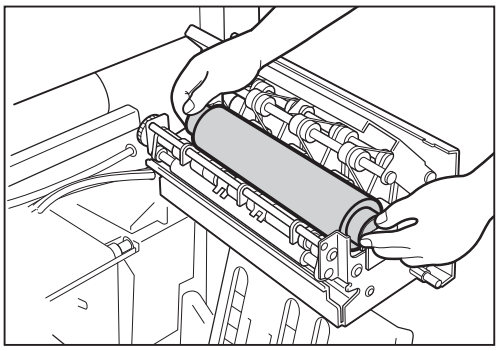
1. Push the “master ejection box open button” to open the “master ejection box”.



2. Open the “master ejection box cover” while pressing the “master ejection box cover open lever”.



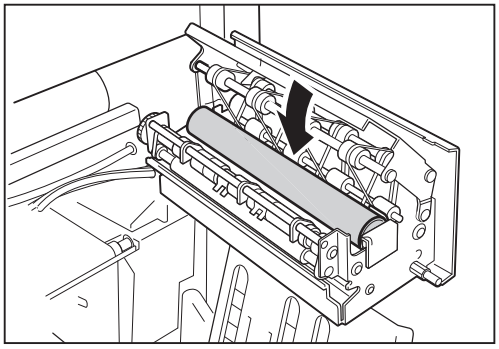
3 Holding the edge of the “master ejection core”, pull out the core and throw it in a trash box.



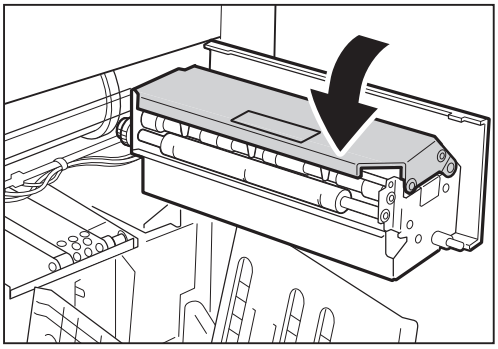
IMPORTANT

- Ink adheres to the master ejection core. Take care to prevent ink from getting onto your clothing.

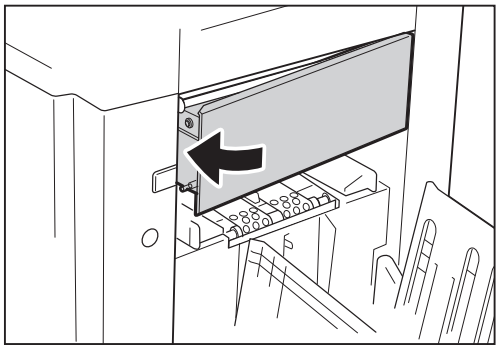
4 Insert a new master ejection core in the master ejection box.



5 Gently close the “master ejection box cover”, push it in until it locks in place.



6 Close the “master ejection box”, and push it in until it locks in place.



Replacing the Drum Unit

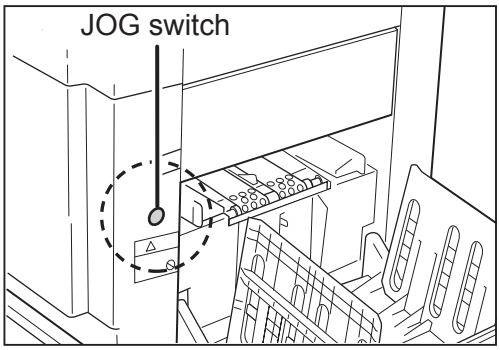
Replacing the Drum Unit

IMPORTANT

- Avoid pressing and damaging the drum surface with fingers etc. as this can stain your fingers or clothes, and if the drum surface has got dented this may cause poor quality prints.
- Always place the drum unit on a flat stable surface. Otherwise, the drum surface may be damaged or dented and may cause poor quality prints.

How to Remove the Drum Unit

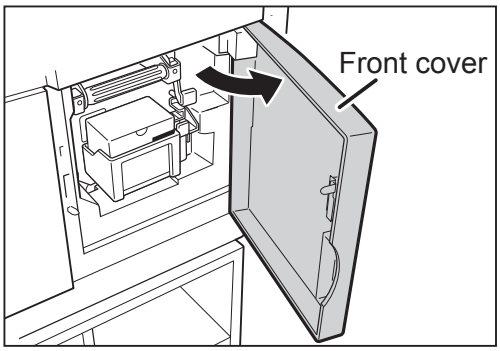
1 Press and hold the “JOG switch” until the drum comes to a stop with a beep.



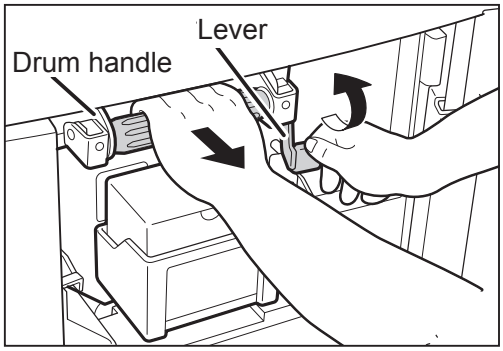
⚠ WARNING

- Do not touch the drum or rollers when you operate the JOG switch.
- Do not put your hands or fingers inside the machine while it is operating. Your hands or fingers could get caught up and injured.

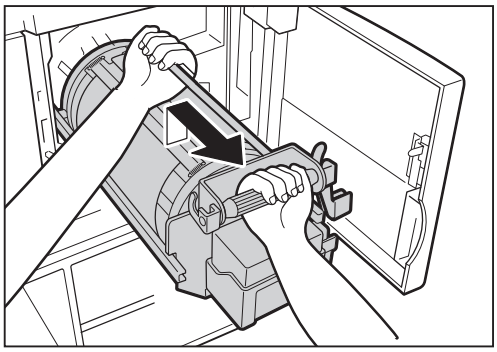
2 Open the “front cover”.



3 Lift the “lever” toward you and hold it there, then pull out the “drum handle” straight toward you until it stops.



4 Grip the “upper drum shaft” with your other hand, and pull the “drum” out toward you while slightly lifting the front end of the drum.

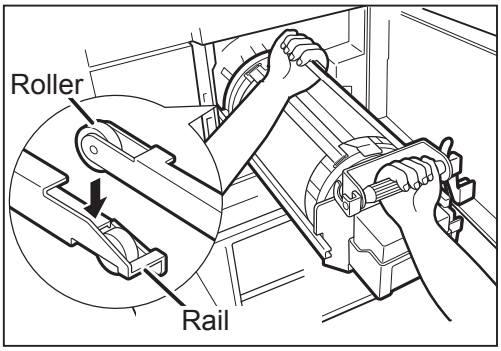


IMPORTANT

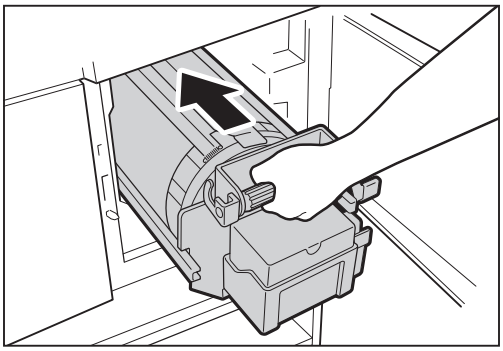
- Do not touch the drum surface. Ink may transfer to your clothes.
- Hold the drum horizontally and place it on a flat, solid surface.

How to Set Drum Unit

1. Hold the “drum” horizontally and place the drum guide roller on the rail in the machine.

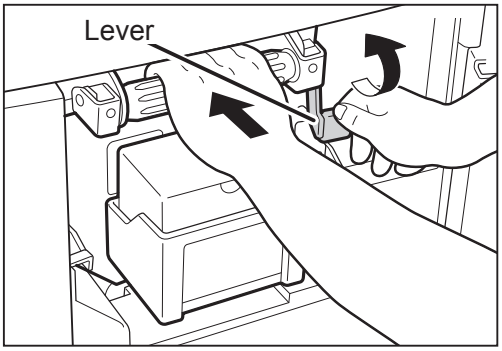


2. Release the “upper drum shaft” and push the “drum” in about 10 cm while lifting up the front end slightly.

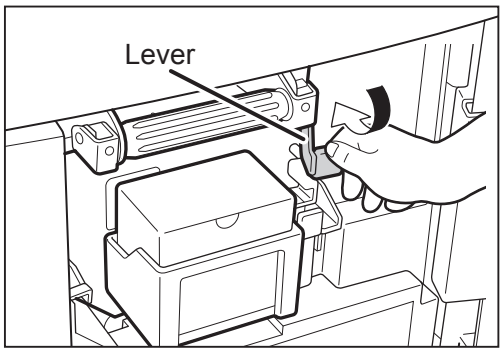


3. Hold the “drum” horizontally and push it in gently until it comes to a stop.

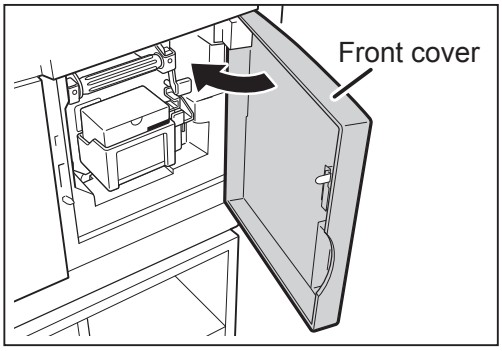
4. Lift the “lever” toward you while pushing the drum in.



5 Lower the “lever”.



6 Close the “front cover”.



Chapter 6

Troubleshooting

This chapter describes how to remove paper jams and what to do when error messages are displayed.

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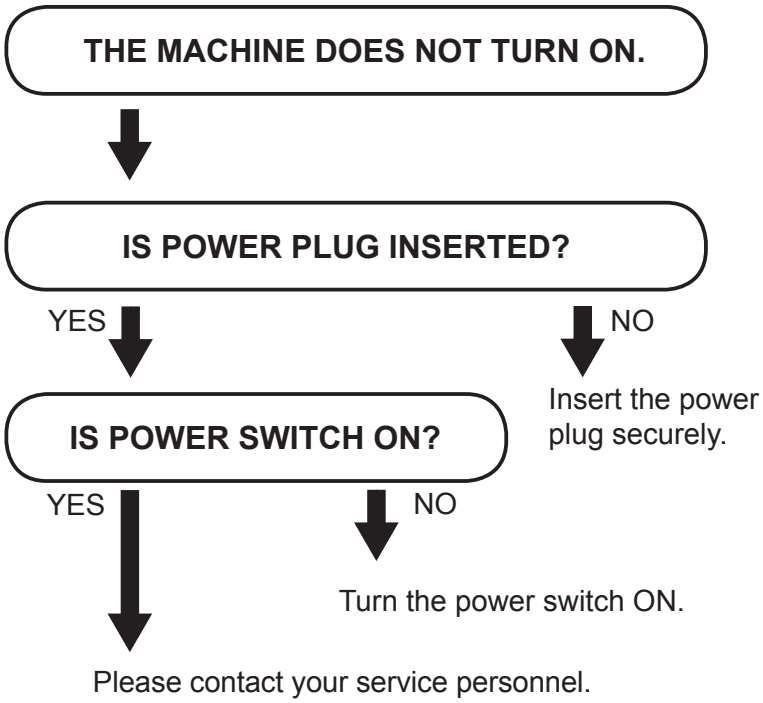
If a Problem Occurs

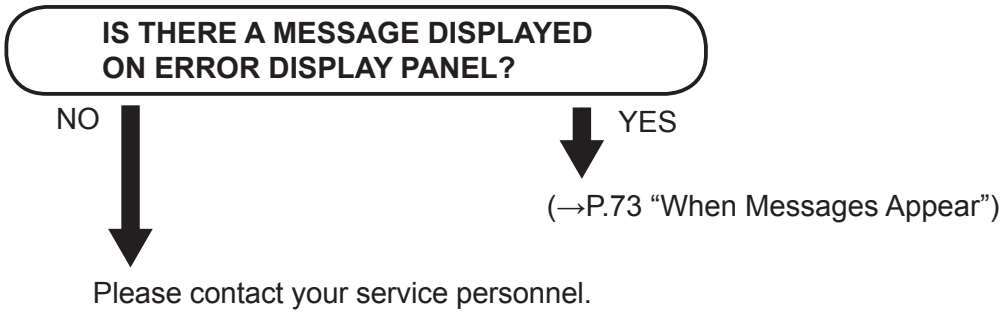
Power Does Not Turn ON

If the power does not turn ON, check the following.

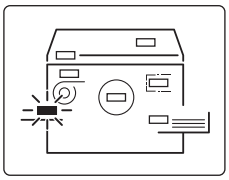
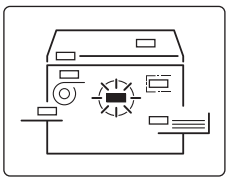
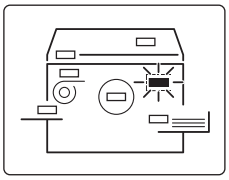
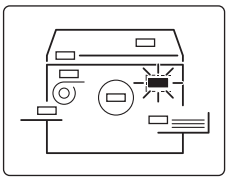
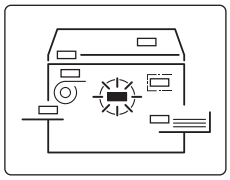
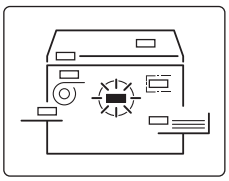
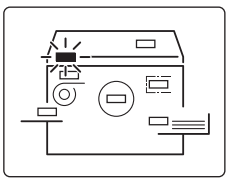


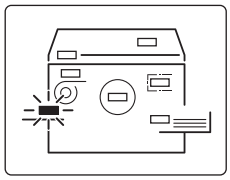
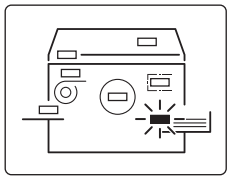
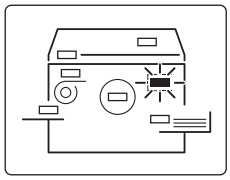
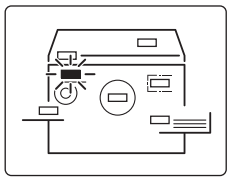
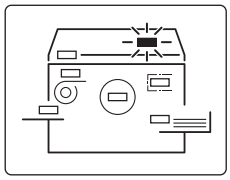
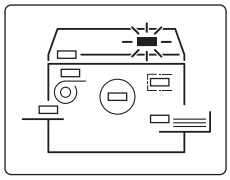
Master Making/Printing Is Not Possible

If master making/printing is not possible, check the following.


IS THERE A MESSAGE DISPLAYED ON ERROR DISPLAY PANEL?
NO
YES
(→P.73 “When Messages Appear”)
Please contact your service personnel.

When Messages Appear

Message	Cause and Solution
 SET PRINT PAPER	Cause: There is no paper in the feed tray. Solution: Load the feed tray with printing paper.
 EXCHANGE INK	Cause: There is no ink. Solution: Replace the old ink pack with a new one. (→P.58 “Replacing the Ink Pack”)
 ROLL-MASTER END	Cause: There is no master. Solution: Replace the roll master with a new one. (→P.61 “Replacing the Roll Master”)
 EXCHANGE EJECT ROLL	Cause: The master ejection core is full. Solution: Replace the core with a new one. (→P.65 “Disposing Of Used Master”)
 DRUM NOT SET	Cause: There is no drum. Solution: Install a drum in the machine. (→P.67 “Replacing the Drum Unit”)
 FRONT-COVER OPEN	Cause: The front cover is open. Solution: Close the front cover.
 UP-COVER OPEN	Cause: The upper cover is open. Solution: Close the upper cover.

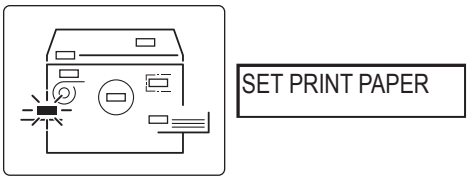
Message	Cause and Solution
 PAPER LEFT JAM.	Cause: A paper jam has occurred in the feed tray. Solution: Remove the jammed paper. (→P.80 “Paper Jam on the Feeder Side (Feed Tray)”)
 PAPER RIGHT JAM.	Cause: A paper jam has occurred on the print tray side. Solution: Inspect the print tray side and remove the jammed paper. (→P.81 “Paper Jam on the Ejection Side (Print Tray Side)”)
 MASTER EJECT MISS	Cause: There is an old master on the drum. Solution: Remove all the masters from the drum. (→P.84 “When a Master Ejection Error Has Occurred”)
 MASTER SET MISS	Cause: There is an error during master setting. Solution: Open the top cover and remove the master that is left in the master feeder. (→P.87 “When a Master Setting Error Has Occurred”)
 ADF OPEN	Cause: The upper cover of ADF is open. Solution: Close the upper cover of ADF.
 DOCUMENT JAMMING	Cause: The document is jammed on the ADF. Solution: Remove the jammed document in accordance with the ADF instruction manual.

Message	Countermeasure
ENTER ID AND PASSWORD	Press the PRINT key and input your ID and Password. (→P.11 “UID Control Function”)
PLEASE MASTER MAKING	Cannot print. This message is displayed just after the master setting error or master ejection error occurs. It is also displayed if you press the PRINT key or TEST PRINT key without making a master while the confidential safeguard function is activated. Make a master first.
--PRINTING--	Printing is not complete. Either press the PRINT key to resume printing or press the C CLEAR key to clear the counter.
--SCANNING--	A master is being made. Wait until it is completed.
NO DOCUMENT	There is no document. Set a document.
--WAIT--	The printer is not ready. Wait a while with the power turned ON. If this message does not disappear after several minutes, turn the power OFF and contact service personnel.
RESET MASTER.ROLL	The master is not set correctly. Set the master again.
SERVICE CALL This message blinks alternately with the message “Exxx”.	Turn the power OFF once and turn the power ON again in several seconds. If the same display appears, make a memo of the message “Exxx” and contact service personnel.

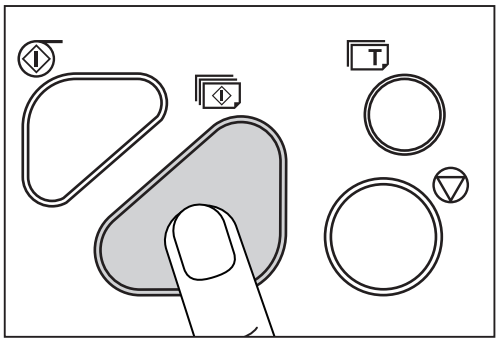
Supplying Paper While Printing

If Paper Runs Out During Printing

If paper runs out during printing, printing stops, the feed tray is lowered automatically and the message “SET PRINT PAPER” is displayed on the LCD panel.



1. If paper runs out during printing, “NO PAPER” is displayed on the LCD panel.
   Load paper according to the following procedure.

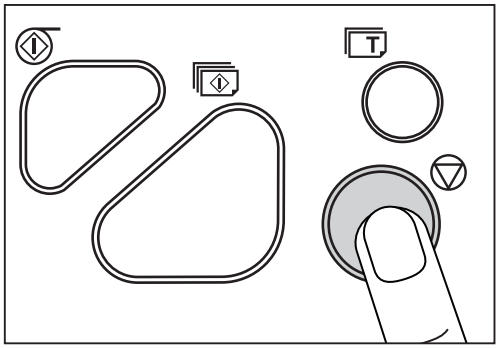


2. Load paper.
   (→P.16 “How to Set Papers”)

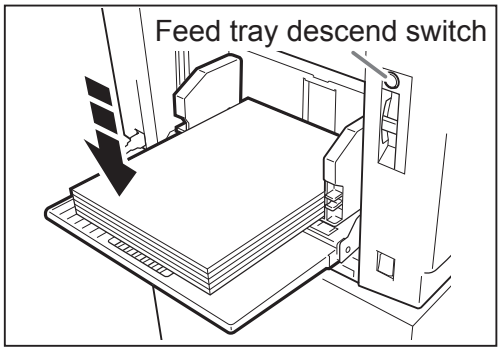
3. Press the PRINT key.
   Printing resumes.

Adding Paper While Printing

1. Press the STOP key.
   Printing stops.

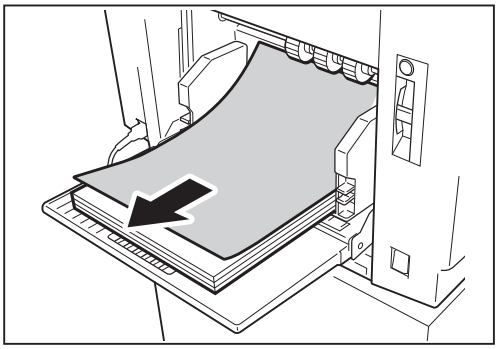


2. Press the feed tray descend switch continuously.
   Release the switch when the feed tray reaches the proper height.
   The feed tray will stop.

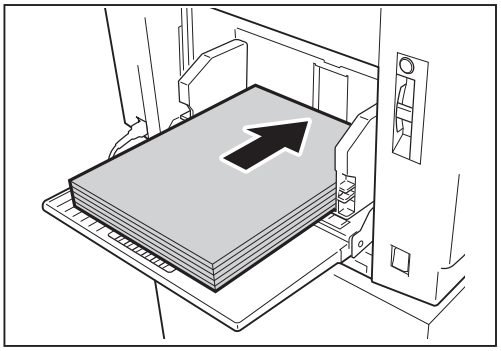


IMPORTANT

- If the sheet is still in the feed roller ring, pull it out and align it with the stack.



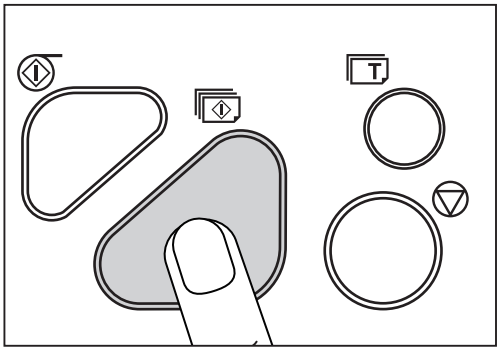
3 Align the stack to be added and place it on top of the existing stack. Press the stack lightly toward the machine.



4 Press the PRINT key.
The feed tray will rise automatically and printing will resume.

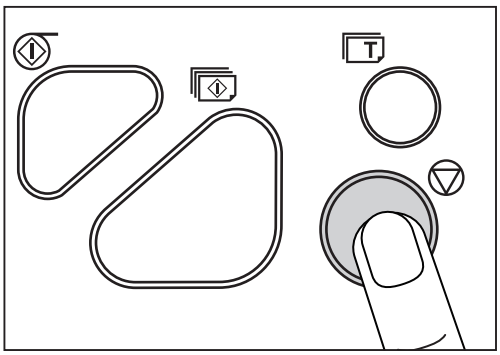
REFERENCE

- When you press the STOP key, printing stops.



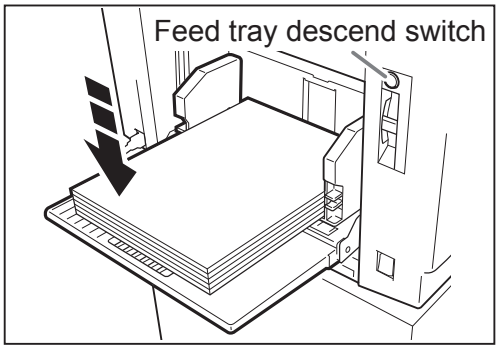
Changing Paper Selection While Printing

1 If the machine is printing, press the STOP key.
Printing stops.



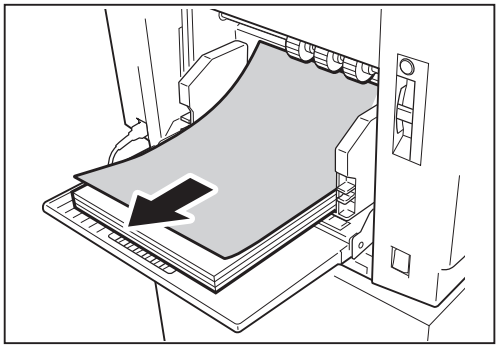
Continue Page ···

2 Press the feed tray descend switch continuously.
Release the switch when the paper tray is at the proper height.
The feed tray will stop.

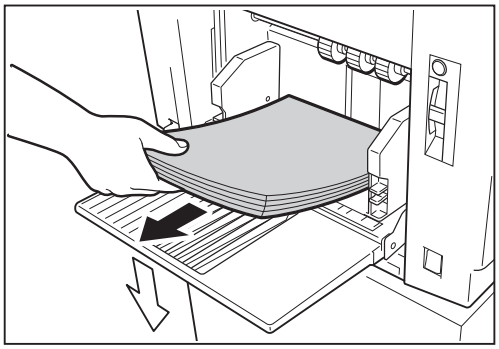


IMPORTANT

- If the sheet is still in the feed roller ring, pull it out and align it with the stack.



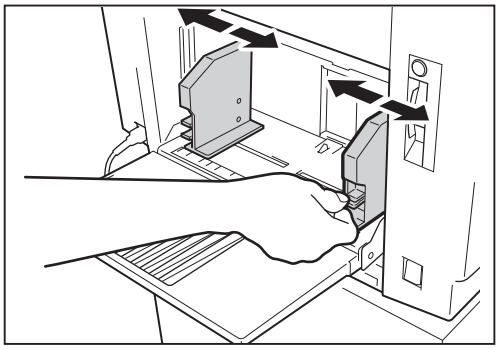
3 Remove paper from the feed tray.
The feed tray will automatically descend.



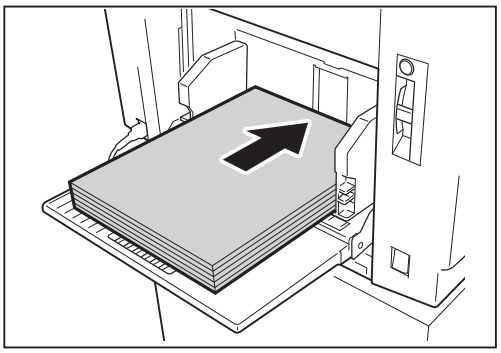
4 Adjust the “side guides” to the “size of paper to be loaded”.

IMPORTANT

- When you change the paper size, check the current master size. If you are loading smaller paper, ink may attach to the rollers inside the machine, causing stain on the paper and smear inside the machine.

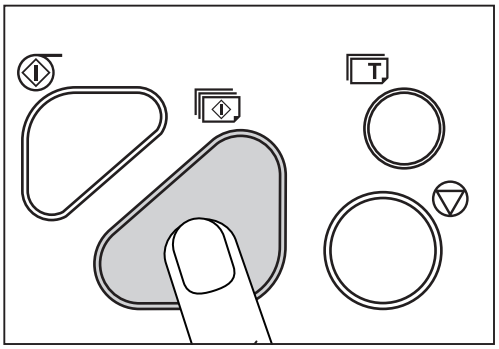


5 Load the “different size paper”.



6 Set the master size.
(→P.23 “Selecting Master Making Size”)

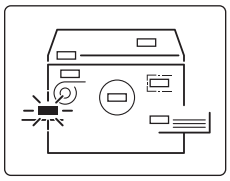
7 Press the PRINT key.
The feed tray will rise automatically and printing will resume.



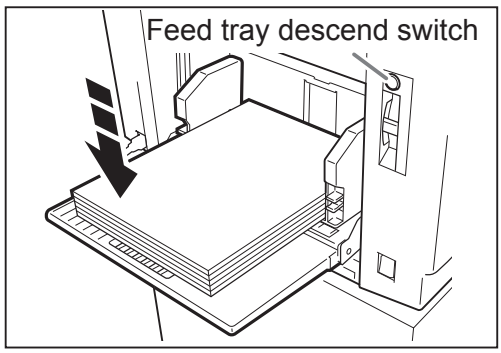
Paper Jams

Paper Jam on the Feeder Side (Feed Tray)

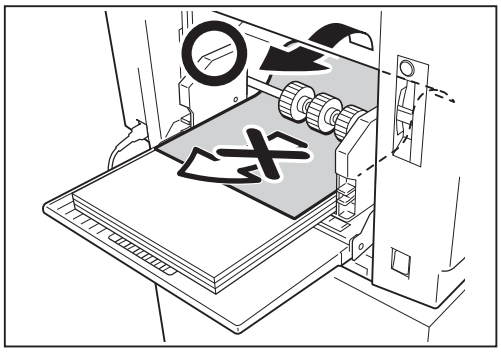
When a paper jam occurs in the feed tray, the message “PAPER LEFT JAM” is displayed on the LCD. Follow the procedure below to remove the jammed paper.



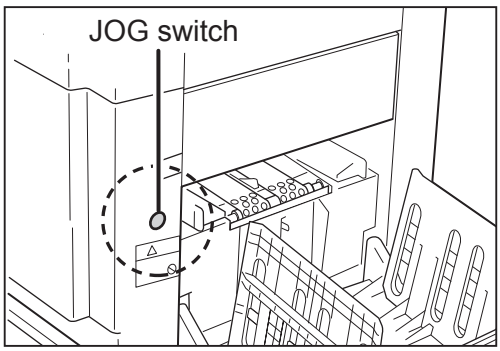
1 Press and hold down the “feed tray descend switch”. Release it when the feed tray reaches the required height. The “feed tray” will stop.



2 Remove the jammed paper as shown in the figure.



3 If the paper is not removed, press the “JOG switch” continuously. The jammed paper is ejected.

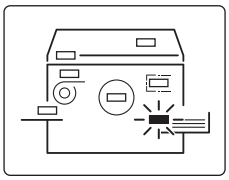


⚠ WARNING

- Do not touch the drum or rollers when you operate the JOG switch.
- Do not put your hands or fingers inside the machine while it is operating.
  Your hands may be pulled in or caught.

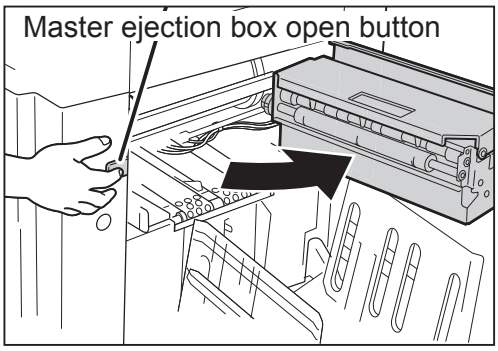
Paper Jam on the Ejection Side (Print Tray Side)

When a paper jams in the print tray, the message “PAPER RIGHT JAM” is displayed on the LCD panel. Follow the procedure below to remove the jammed paper.



PAPER RIGHT JAM.

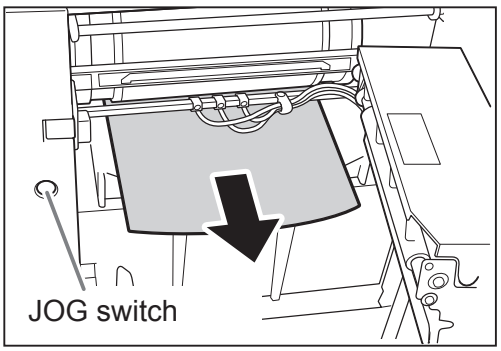
1 Press the “master ejection box open button” to open the master ejection box.



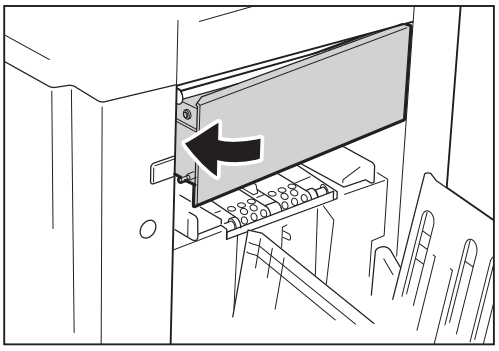
2 Press the “JOG switch” to remove the jammed paper. You can eject the paper that is partially printed by pressing the “JOG switch”.

⚠ WARNING

- Do not touch the drum or rollers when you operate the JOG switch.
- Do not put your hands or fingers inside the machine while it is operating.
  Your hands may be pulled in or caught.



3 Close the “master ejection box”, and push it in until it locks in place.



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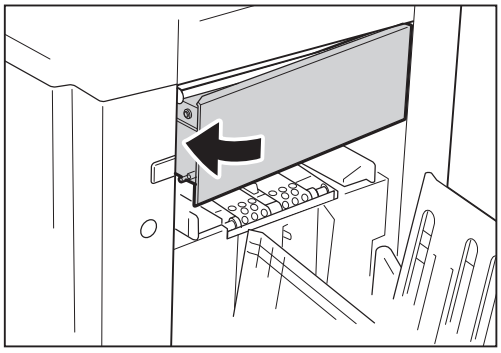
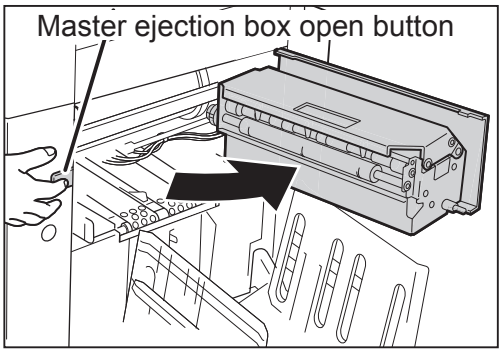
4 Close the master ejection box, pressing it until it locks.



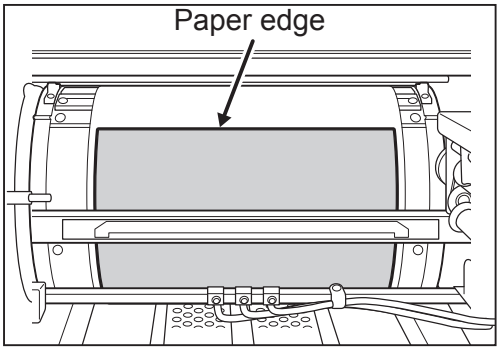
■ Paper Adhering to Drum

If paper has adhered to the “drum”, follow the procedure below to remove it.

1 Press the “master ejection box open button” to open the “master ejection box”.



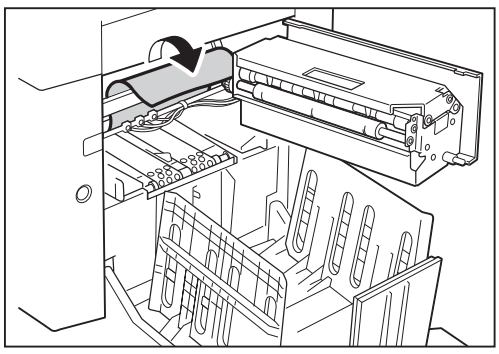
2 Press the “JOG switch” little by little to find the edge of the paper, then stop the drum at the position shown in the figure.



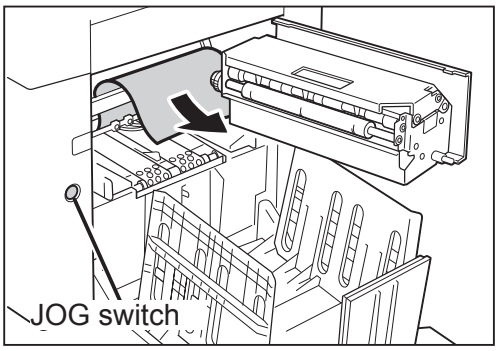
⚠ WARNING

- Do not touch the drum or rollers when you operate the JOG switch.
- Do not put your hands inside the machine while it is operating. Your hands may be pulled in or caught.

3 Peel off the edge of the paper from the “drum”.



4 Pull the paper towards the ejection side while pressing the “JOG switch” little by little to remove the paper.



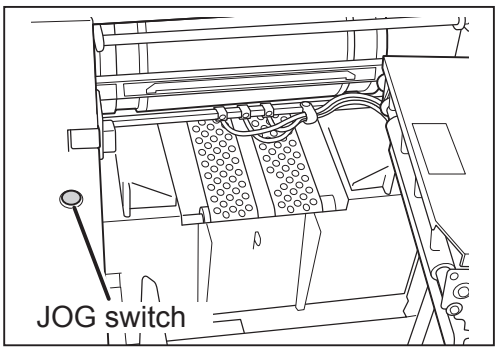
IMPORTANT

- Make sure that the removed paper does not stick to your clothes.

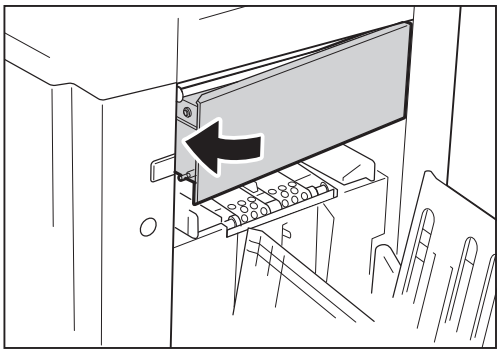
⚠ WARNING

- Do not touch the drum or rollers when you operate the JOG switch.
- Do not put your hands inside the machine while it is operating. Your hands may be pulled in or caught.

5 Hold the JOG switch down until the drum comes to a stop with a beep.



6 Close the “master ejection box”, and push it in until it locks in place.



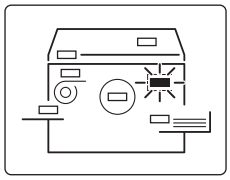
7 Make another master.

REFERENCE

- Make sure that there is no solid black part in the top part of the document.
- If there is solid black part in the top part of the document, the following may solve the problem: Place the document upside down and make a master.

When a Master Ejection Error Has Occurred

When an old master remains on the drum, “MASTER EJECT MISS” is displayed on the LCD panel. Remove it by following the procedure below.

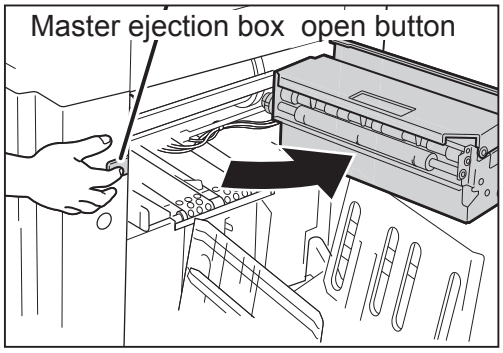


MASTER EJECT MISS

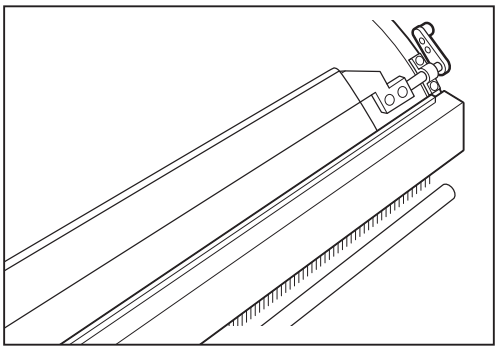
IMPORTANT

- Do not press the surface of the drum unit with your fingers or scratch it.
  Doing so will not only dirty your fingers or clothing but will also indent the drum unit surface, preventing normal printing.
- Before placing the drum unit, check the location for other objects so that it is placed on a level surface.
- Scratches or dents on the drum unit surface prevents normal printing.

1 Press the “master ejection box open button” to open the “master ejection box.”



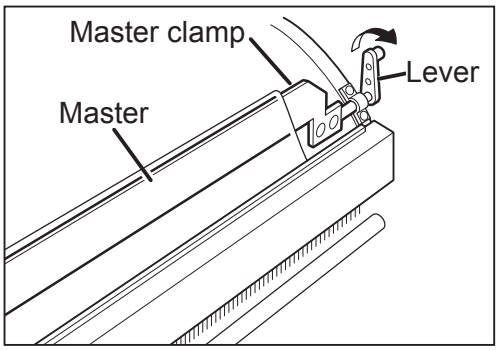
2 Press the “JOG switch” little by little to find the edge of the paper, then stop the drum at the position shown in the figure.



⚠ WARNING

- Do not touch the drum or rollers when you operate the JOG switch.
- Do not put your hands inside the machine while it is operating. Your hands may be pulled in or caught.

3 Lift the lever toward you.
The master clamp opens and the edge of the master will be released from the clamp. If the master is stuck, release it by hand.

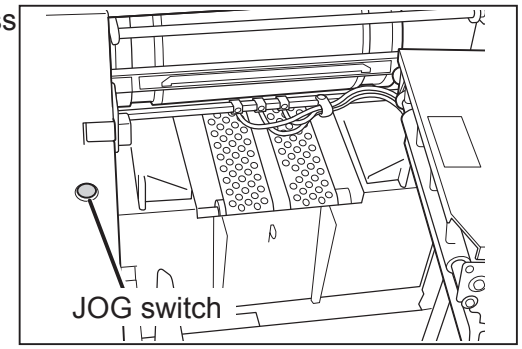


4 Return the lever.

5 Pull the front end of the master toward you and press the JOG switch intermittently.
Hold the switch down until the master peels off.

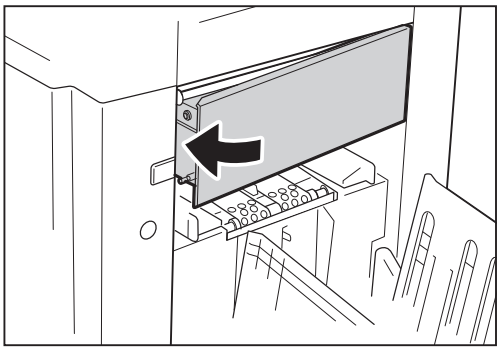
IMPORTANT

- Discard the old master, making sure that it does not touch your clothing.



6 Hold the JOG switch down until the drum comes to a stop with a beep.

7 Close the master ejection box, pressing it until it locks.



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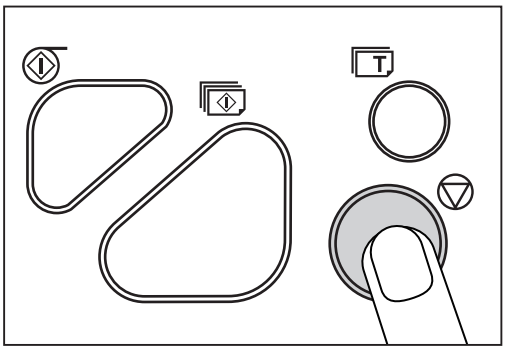
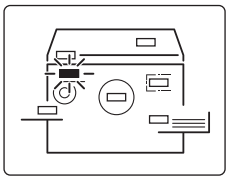
8 Press the STOP key.
The message is deleted.



9 Make another master.

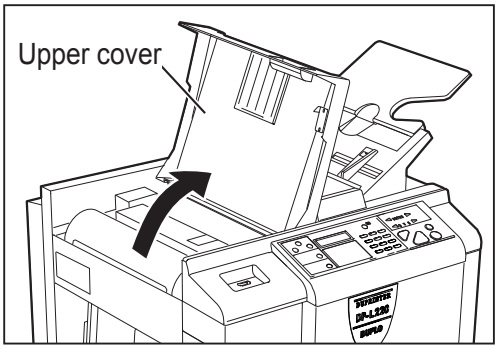
When a Master Setting Error Has Occurred

The message “MASTER SET MISS” is displayed on the LCD panel.
Follow the procedure below to remove a master that is jammed in the feed section, and try master making again.

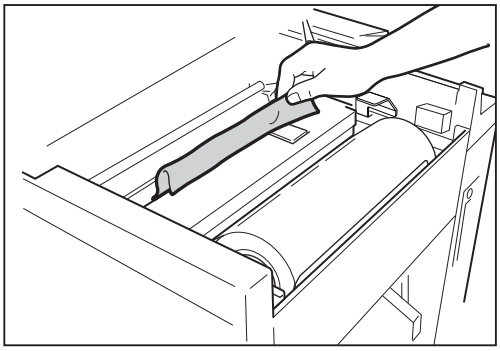


How to Remove the Master

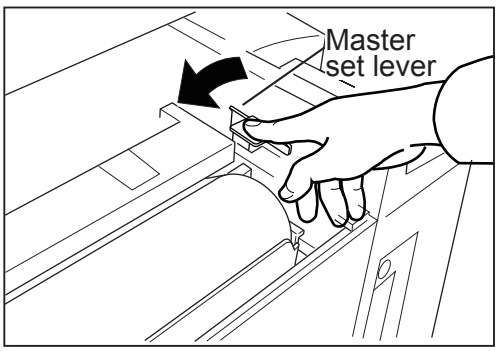
1 Open the “upper cover”.



2 Remove the “master” that is in the feed section.



3 Push the “master set lever”.
The master will be pulled in.



IMPORTANT

- If the master is not pulled in, open the master cover and gently press in as far as possible to set again.

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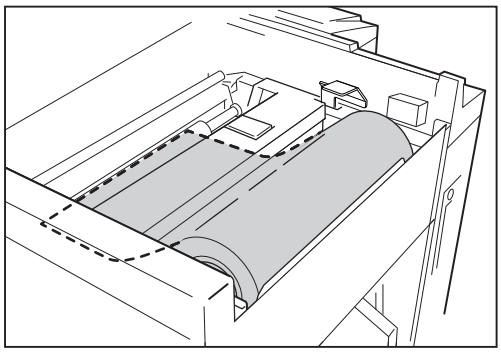
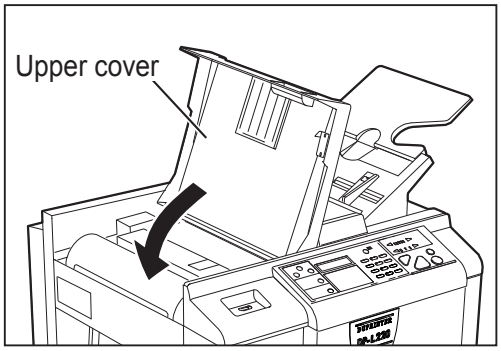
4 Make sure that the leading edge of the master is protruding from the inner side of the master cover.



IMPORTANT

- If the master cannot be set correctly, its leading edge will not be visible. Open the master cover, and set again.

5 Gently close the “upper cover”.



6 Check that the error message is deleted.

7 Make a new master and start printing.

IMPORTANT

- The message “PLEASE MASTER MAKING” is displayed on the LCD panel when the PRINT key is pressed without master making being carried out.

Chapter 7

Daily Maintenance

This chapter describes daily maintenance of the machine.

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Daily Maintenance

● **How to maintain the machine**

Clean the machine periodically to maintain its performance.

⚠ WARNING

- Before cleaning, be sure to turn the power off, wait until the machine cools down and unplug the power cord. Failure to do so can lead to fire or electric shock.
- Never remove the covers from the machine. Never modify them.
- Do not spill water or any liquid inside the machine as this may cause a fire or electric shock. If such a spillage occurs, contact our service personnel.

Clean the outside of the machine according to the following procedure.
1. Moisten a soft cloth with water or neutral detergent and wring it out thoroughly.
2. Wipe any dirt off the outside.
3. Wipe off the excess moisture on the outside with a soft dry cloth.

- Gently wipe any dust off the glass with a soft dry cloth.
- Gently wipe any dust off the LCD touch panel a soft dry cloth. Never use a wet cloth as this may cause damage.

⚠ WARNING

- Never use alcohol or solvent-based cleaners as these may tarnish or damage the exterior finish.
- Do not use diluted petroleum or insecticide as this is a fire hazard.

Accumulated dust may cause the machine to malfunction. Clean it periodically.
Contact our dealer for cleaning the inside of the machine.

Chapter 8

Specifications

This chapter describes machine specifications.

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Specifications

Product name/ model No.	Duprinter DP-L220	Duprinter DP-L210	Duprinter DP-L200
Model	Table top digital duplicator		
Master making method	Thermal digital master making		
Master making interval	24 seconds (A4 100%)		
Resolution	Scan (input) resolution: 300 dpi × 600 dpi Print (output)resolution: 300 dpi × 600 dpi (Master punch density: 600 dpi × 600 dpi)		
Scanning method	ADF (Automatic document feeder)		
ADF Capacity	10 sheets (64 gsm)		
Printing method	Stencil print		
Document type	Sheets		
Document size	MAX. 271×393 mm (10.6"×15") MIN. 100×148 mm (4"×6")		
ADF Document weight	64–128 gsm (17 lb bond - 34 lb bond)		
Scanning area	250×350 mm		
Image area (max)	250×355 mm (10"×13.8")	210×347 mm (8.2"×13.6")	204×288 mm
Feeding capacity	1,300 sheets (64 gsm, 17 lb bond)		
Stacking capacity	1,300 sheets (64 gsm, 17 lb bond) when installed on the optional cabinet 900 sheets (64 gsm, 17 lb bond) when used as table top		
Paper size	MAX : 297×420 mm (11.7"×16.5") MIN : 100×148 mm (4"×6") For paper longer than 365 mm, the speed and the paper weight are limited.	MAX : 297×364 mm (11.7"×14.3") MIN : 100×148 mm (4"×6") For paper longer than 298 mm, the paper weight is limited.	
Paper weight	45–210 gsm (40–180 kg) 13 lb bond–110 lb Index		
Print speed	60–130 ppm 3 steps		
Zoom	<A/B size> 100% Zoom: 50%–200% Preset reduction/enlargement: 70%, 81%, 86%, 115%, 122%, 141% ×94% <Inch size> 100% Zoom: 50%–200% Preset reduction/enlargement: 64%, 74%, 77%, 121%, 129%, 141% ×94%		

Product name/ model No.	Duprinter DP-L220	Duprinter DP-L210	Duprinter DP-L200
Registration adjustment	Vertical: ±15 mm Horizontal: ±15 mm (Paper width: 297±5 mm)		
Image modes	Text (default), Photo, Text/Photo		
Ink supply method	Automatic control		
Color print	By replacing Drum unit		
Master feeding method	Roll master automatic feed (200 masters/roll, 220 masters/roll)		
Master ejection method	Automatic ejection		
Master ejection capacity	50 masters		
Display panel	Small-sized Graphic LCD panel		
LCD Language	Japanese English French German Italian Spanish Russian Korean Chinese (Simplified) Chinese (Traditional) Thai Polish		
Other function	• OK monitor • Entry of different number of prints or sets • Confidential safeguard • Special function Master size select Master making density control ×94% Memory mode 2 in 1 (when using ADF) Zoom (50%–200%) • Ink save mode • Minimum print restriction * • Energy save mode (LCD turned off) * • User ID function * *These functions are included as standard. Factory setting is OFF. To use these functions, contact our service personnel.		

Specifications

Product name/ model No.	**Duprinter DP-L220**	**Duprinter DP-L210**	**Duprinter DP-L200**
Online	Optional USB interface kit (USB2.0 Full-Speed)* ● Windows 2000 Professional ● Windows XP Professional/Home Edition ● Windows Vista (32bit/64bit) ● Windows 7 (32bit/64bit) ● Mac OS X10.3/10.4/10.5/10.6/10.7 *USB cable must be 3 m or shorter. Optional network server FS-100U2/FS-100U (USB LAN unit) ● Windows 2000 Professional ● Windows XP Professional/Home Edition ● Windows Vista (32bit/64bit) ● Windows 7 (32bit/64bit) ● MacOSX10.3/10.4/10.5/10.6/10.7		
Options	Drum unit Tape Cluster (TAP-13) USB interface kit (I/F-43) UID PC Connector (UPC-01) Automatic power off kit Cabinet (CAB-13) Duplo print server FS-100U2 / FS-100U (Optional USB I/F kit is necessary.) Cabinet (CAB-13)		
Roll Master	DRC42 / DRC42L / DRC425	DRC41 / DRC415	
Ink	600 ml Black (DC14), Red (DC13), Blue (DC12), Green (DC15), Brown (DC16), Gray (DC17)		
Power supply	100–240 V 50/60 Hz 1.6–0.8 A		
Power consumption	When printing: max 156 W When making a master: 71 W When standing by: 22 W		
Dimensions	In use: 1270 (W) × 615 (D) × 710 (H) mm Folded: 695 (W) × 615 (D) × 710 (H) mm When packed: 725 (W) × 725 (D) × 875 (H) mm		
Weight	65 kg (when packed: 77 kg)		
Operating temperature	10–30 degrees (C) (50–86 degrees (F))		

* Specifications are subject to change without notice.

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